


# SyncMaster 275TPLUS

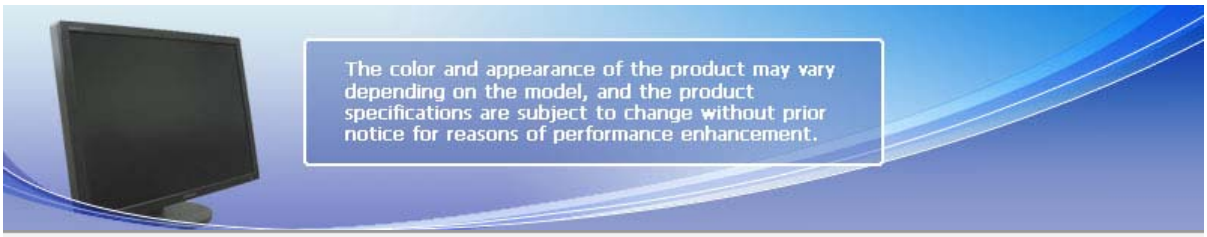
**Install driver**

Windows

**Install programs**

Natural Color

MagicTune™





- Safety Precautions
- Introduction
- Connections
- Using the Software
- Adjusting the Monitor
- Troubleshooting
- Specifications
- Information


## Safety Precautions



### Notation

Please read the following safety instructions as they are designed to prevent damage to property and harm to the user.

### Warning / Caution



Failure to follow directions noted by this symbol could result in bodily harm or damage to the equipment.

### Notational Conventions



Prohibited



Important to read and understand at all times



Do not disassemble



Disconnect the plug from the outlet



Do not touch



Ground to prevent an electric shock



### Power



When not used for extended period of time, set your computer to DPM.
If using a screen saver, set it to active screen mode.

The images here are for reference only, and are not applicable in all cases (or countries).

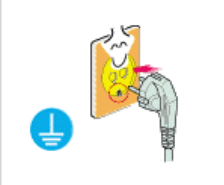
Shortcut to Anti-Afterimage Instructions



- Do not use a damaged or loose plug.
  - This may cause electric shock or fire.



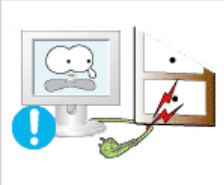
- Do not pull the plug out by the wire nor touch the plug with wet hands.
  - This may cause electric shock or fire.



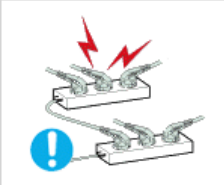
- Use only a properly grounded plug and receptacle.
  - An improper ground may cause electric shock or equipment damage. (Class I Equipment only.)



- Insert the power plug firmly so that it does not come loose.
  - A bad connection may cause fire.



- Do not excessively bend the plug and wire nor place heavy objects upon them, which could cause damage.
  - This may cause electric shock or fire.



- Do not connect too many extension cords or plugs to one outlet.
  - This may cause fire.



- Do not disconnect the power cord while using the monitor.
  - A surge may be caused by the separation and may damage the monitor.



- Do not use the power cord when the connector or plug is dusty.
  - If the connector or plug of the power cord is dusty, clean it with a dry cloth.
  - Using the power cord with a dusty plug or connector may cause electric shock or fire.



- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.
  - This may cause electric shock or fire.



## Installation



Be sure to contact an authorized Service Center when installing your set in a location with heavy dust, high or low temperatures, high humidity, and exposed to chemical substances and where it will be operated for 24 hours continuously such as at airports, train stations etc.

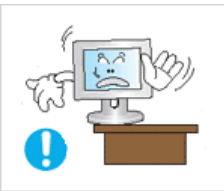
Failure to do so may cause serious damage to your monitor.



- Place your monitor in a location with low humidity and a minimum of dust.
  - Failure to do so may cause electric shock or fire inside the monitor.



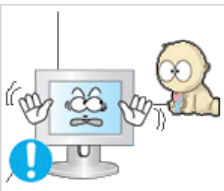
- Do not drop the monitor when moving it.
  - This may cause damage to the product or the person carrying it.



- Install the monitor base in a showcase or shelf so that the end of the base does not protrude from the showcase or shelf.
  - Dropping the product may cause damage to the product or the person carrying it.

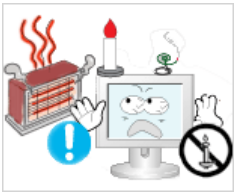


- Do not place the product on an unstable or small surface area.
  - Place the product on an even and stable surface, as the product may fall and cause harm to someone walking by, specifically children.



- Do not place the product on the floor.
  - Take care, as someone, specifically children may trip over it.

- TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.



- Otherwise, this may cause fire.

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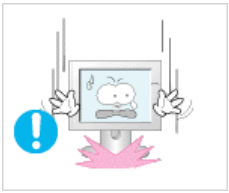
- Keep any heating devices away from the power cable.
  - A melted coating may cause electric shock or fire.

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- Do not install the product in places with poor ventilation, for instance, a bookshelf, closet, etc.
  - Any increase in the internal temperature may cause fire.

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- Put down the monitor carefully.
  - Failing to do so may damage the monitor.

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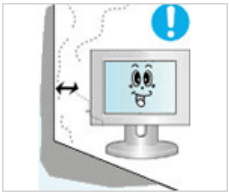
- Do not place the monitor face down.
  - This may damage the TFT-LCD surface.

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- The installation of the bracket must be done by a qualified professional.
  - Installing the bracket by unqualified personnel may result in injury.
    Always use the mounting device specified in the owner's manual.

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- When installing the product, make sure to keep it away from the wall (more than 10 cm/4 inches) for ventilation purposes.
  - Poor ventilation may cause an increase in the internal temperature of the product, resulting in a shortened component life and degraded performance.

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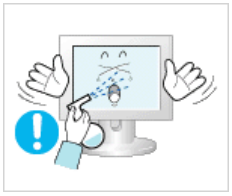
- Keep the plastic packaging (bag) out of children's reach.
  - The plastic packaging (bag) may cause suffocation if children play with it.

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## Cleaning and Using



When cleaning the monitor case or the surface of the TFT-LCD screen, wipe with a slightly moistened, soft fabric.



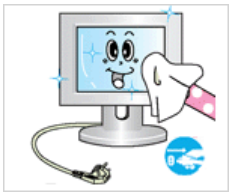
- Do not spray water or detergent directly onto the monitor.
  - This may cause damage, electric shock or fire.



- Use the recommended detergent with a smooth cloth.



- If the connector between the plug and the pin is dusty or dirty, clean it properly using a dry cloth.
  - A dirty connector may cause electric shock or fire.



- Make sure to unplug the power cord before cleaning the product.
  - Otherwise, this may cause electric shock or fire.



- Unplug the power cord from the power outlet and wipe the product using a soft, dry cloth.
  - Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air freshener, lubricant or detergent.

Notation Power Installation Cleaning and Using Others

## Others



- Do not remove the cover (or back).
  - This may cause electric shock or fire.
    Refer to a qualified servicing company.



If your monitor does not operate normally - in particular, if there is any unusual sound or smell coming from the monitor - contact an authorized dealer or the Service Center.

- This may cause electric shock or fire.



Keep the product away from places exposed to oil, smoke or moisture; do not install inside a vehicle.

- This may cause a malfunction, electric shock or fire.
  In particular, avoid operating the monitor near water or outdoors where the monitor could be exposed to snow or rain.



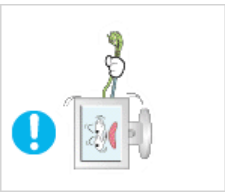
If the monitor is dropped or the casing is damaged, turn the monitor off and unplug the power cord. Then contact the Service Center.

- The monitor may malfunction, causing electric shock or fire.



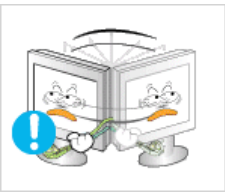
Disconnect the plug from the outlet during storms or lightning or if it is not used for a long period of time.

- Failure to do so may cause electric shock or fire.



Do not try to move the monitor by pulling only the wire or the signal cable.

- This may cause a breakdown, electric shock or fire due to damage to the cable.



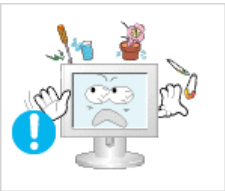
Do not move the monitor right or left by pulling only the wire or the signal cable.

- This may cause a breakdown, electric shock or fire due to damage to the cable.



Do not cover the vents on the monitor cabinet.

- Bad ventilation may cause a breakdown or fire.



Do not place water containers, chemical products or small metal objects on the monitor.

- This may a malfunction, an electric shock or fire.
  If a foreign substance enters the monitor, unplug the power cord and contact the Service Center.



- Keep the product away from combustible chemical sprays or inflammable substances.
  - This may cause an explosion or fire.



- Never insert anything metallic into the monitor openings.
  - This may cause electric shock, fire or injury.



- Do not insert metal objects such as chopsticks, wire and tools or inflammable objects such as paper or matches into the vent, headphone port or AV ports or etc or etc.
  - This may cause electric shock or fire. If an alien substances or water enters the product, turn the product off, unplug the power connector from the wall outlet and contact the Service Center.

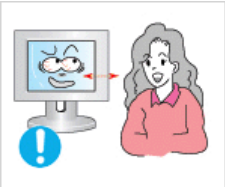


- When viewing a fixed screen for an extended period of time, residual image or blurriness may appear.
  - Change the mode to energy saving mode or set a screensaver to a changing picture when away from the monitor for an extended period of time.

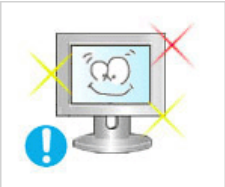


- Adjust the resolution and frequency to the level appropriate for the model.
  - An inappropriate resolution may cause undesirable picture quality.

    27 inch (68 cm) - 1920 x 1200



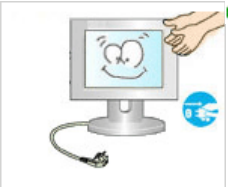
- Viewing the monitor continuously at a too close angle may result in damage to your eyesight.



- To ease eye strain, take at least a five-minute break after every hour of using the monitor.

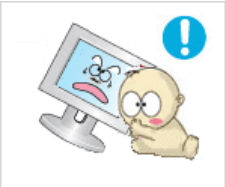


- Do not install the product on an unstable, uneven surface or a location prone to vibrations.
  - Dropping the product may cause damage to the product or the person carrying it. Using the product in a location prone to vibrations may shorten the lifetime of the product or may cause the product to catch fire.



When moving the monitor, turn off and unplug the power cord. Make sure that all cables, including the antenna cable and cables connected to other devices, are disconnected before moving the monitor.

- Failure to disconnect cables may damage it and cause fire or electric shock.



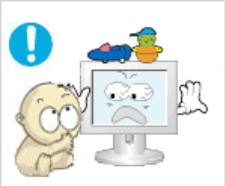
Place the product out of children's reach, as they could damage by hanging onto it.

- A falling product may cause injury to the person or even fatality.



When not using the product for an extended period of time, keep the product unplugged.

- Otherwise, this may cause heat emission from the accumulated dirt or degraded insulation, causing electric shock or fire.



Do not place your children's favorite toys or any other objects of interest on the product.

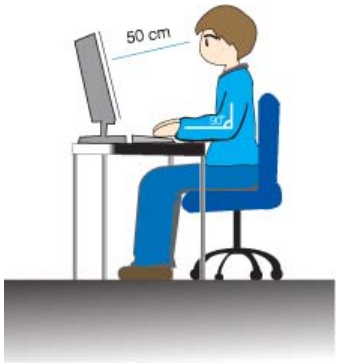
- Children may try to climb on the product to retrieve an object.
  The product could fall, causing injury or even fatality.



When lifting up or moving the monitor, do not lift the monitor upside down while holding only the stand.

- This may cause your monitor to fall, and become damaged or cause personal injury.

## Good Postures When Using the Monitor




Try to maintain a good posture when using the monitor.

- Keep your back straight.
- Keep a distance of about 45 ~ 50 cm between your eyes and the monitor screen. Look at the screen from slightly above it, and have the monitor directly in front of you.
- Tilt the monitor upwards by 10 ~20 degrees. Adjust the monitor height so that the top of the monitor is slightly below eye level.
- Adjust the monitor angle so that there is no reflected light on the screen.Try to maintain your arms perpendicular to your armpits.
- Keep your arms level with the back of your hands.
- Keep the angle of the elbow perpendicular.
- Keep the angle of the knees at more than 90 degree. Do not let your feet fall up from the floor. Adjust the arm position so that it is below the heart

Correct Disposal of This Product
(Waste Electrical & Electronic Equipment) - Europe only



(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

# PRODUCT INFORMATION (Image Retention Free)

LCD Monitors and TVs may have an image retention when switching from one image to another especially after displaying a stationary image for a long time.
This guide is to demonstrate a correct usage of LCD products in order to protect them from Image retention.

- **Warranty**
  Warranty does not cover any damage caused by image retention.
  Burn-in is not covered by the warranty.

- **What is Image retention ?**
  During normal operation of a LCD panel, pixel image retention doesn't occur. However, if the same image is displayed for a long time, a slight difference in electric charge accumulates between the two electrodes which encase the liquid crystal. This may cause the liquid crystal to build up in a certain areas of the display. Thus, the previous image is retained when switching to a new video image. All display products, including LCD,are subject to image retention. This is not a product defect.

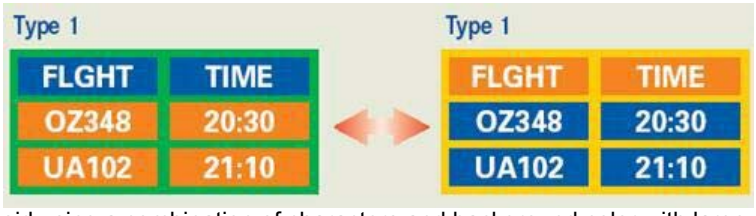
  Please follow the suggestions below to protect your LCD from image retention

- **Power Off, Screen Saver, or Power Save Mode**
  Ex)
  - Turn the power off when using a stationary pattern.
    - Turn the power off for 4 hours after 20 hours in use
    - Turn the power off for 2 hours after 12 hours in use
  - Use a Screen saver if possible
    - Screen saver in one color or a moving image is recommended.
  - Set the Monitor to power off with the PC Display Properties Power Scheme.

- **Suggestions for specific applications**
  Ex) Airports, Transit Stations, Stock Markets, Banks, and Controlling Systems
  We recommend that you follow set up of your display system program as below:

- **Display Information together with Logo or Moving image cycle.**
  Ex) Cycle : Display Information for 1 hour followed by a
  Display Logo or moving image for 1 minute.

- **Change the Color Information periodically (Use 2 different colors).**
  Ex) Rotate the Color Information with 2 colors every 30 minutes.




Avoid using a combination of characters and background color with large difference in luminance.
Avoid using Grey colors, which can cause Image retention easily.

- Avoid: Colors with big difference in luminance (Black & White, Grey)

Ex)




- Recommended settings: Bright colors with little difference in luminance

- Change the characters color and background color every 30 minutes

Ex)




- Every 30 minutes, change the characters with movement.

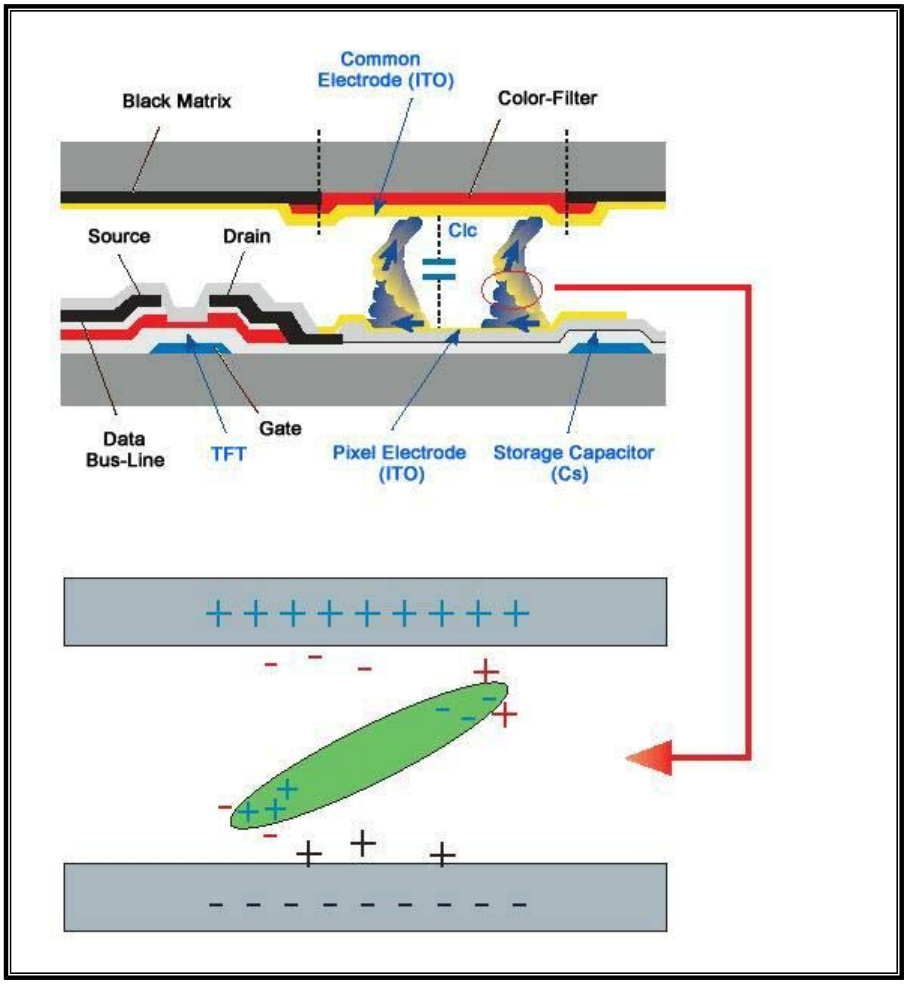
Ex)



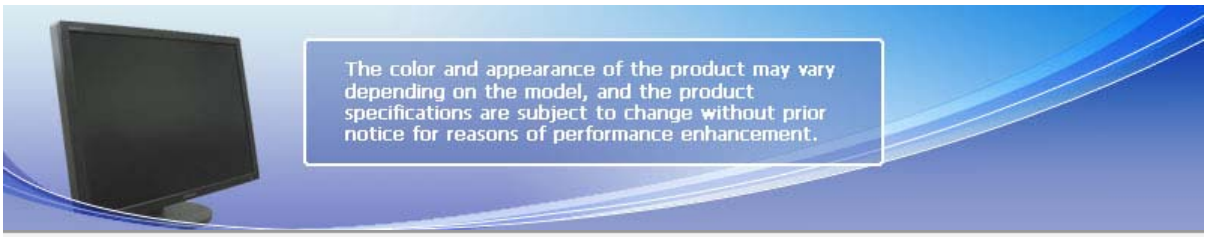

- **The best way to protect your monitor from Image retention is to set your PC or System to operate a Screen Saver program when you are not using it.**

  Image retention may not occur when a LCD panel is operated under normal conditions.

  Normal conditions are defined as continuously changing video patterns. When the LCD panel is operated for a long time with a fixed pattern (-over 12 hours-), there may be slight difference in voltage between electrodes that work the liquid crystal (LC) in a pixel. The voltage difference between electrodes increases with time, forcing the liquid crystal to lean. When this occurs, the previous image may be seen when the pattern is changed.
  To prevent this, the accumulated voltage difference must be decreased.




- Our LCD Monitor satisfies ISO13406-2 Pixel fault Class II






## Package Contents

Please make sure the following items are included with your monitor.
If any items are missing, contact your dealer.
Contact a local dealer to buy optional items.

### Unpacking

#### Without Stand



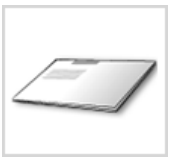
Monitor

#### With Stand



Monitor & Sliding Stand

### Manual



Quick Setup Guide

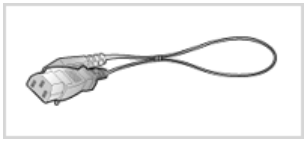


Warranty Card
(Not available in all locations)



User's Guide, Monitor Driver, Natural Color, MagicTune™

### Cable



Power Cord



D-sub Cable



USB Cable

### Others



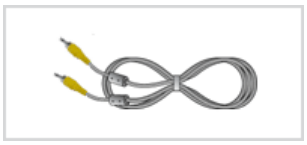
Cleaning Cloth

※ This is only provided for highly polished black products as a product feature.

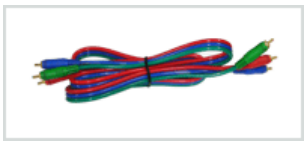
### Sold separately



S-Video Cable



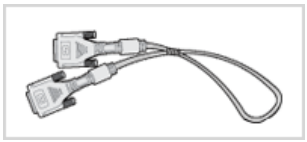
Video Cable



Component Cable



HDMI Cable



DVI-D Cable

### Speaker package(option)



Speaker



RCA to stereo cable



## Your Monitor

## Front




| | | |
|---|---|---|
| 1 | MENU button [MENU] | Opens the OSD menu.<br>Also use to exit the OSD menu or return to the previous menu. |
| 2,3 | Adjust buttons [▼/▲] | These buttons allow you to adjust items in the menu. |
| 2 | PC/DVI(PC) : MagicBright™ button [▲] | MagicBright™ is a new feature providing optimum viewing environment depending on the contents of the image you are watching. Currently seven different modes are available: Custom, Text, Internet, Game, Sports, Movie and Dynamic CR. Each mode has its own pre-configured brightness value. You can easily select one of seven settings by simply pressing MagicBright™ control button.<br>1) Custom<br>Although the values are carefully chosen by our engineers, the pre-configured values may not be comfortable to your eyes depending on your taste. If this is the case, adjust the brightness and contrast by using the OSD menu.<br>2) Text<br>For documentations or works involving heavy text.<br>3) Internet<br>For working with a mixture of images such as texts and graphics.<br>4) Game<br>For watching motion pictures such as a game.<br>5) Sports<br>For watching motion pictures such as a Sports.<br>6) Movie<br>For watching motion pictures such as a DVD or Video CD.<br>7) Dynamic CR<br>Dynamic CR is to automatically detect distribution of inputted visual signal and adjust to create optimum contrast.<br>>> Click here to see an animation clip |
| | AV /S-Video/Component /HDMI : Mode button | The Monitor has four automatic picture settings ("Dynamic", "Standard", "Movie" and "Custom") that are preset at the factory. You can activate either Dynamic, Standard, Movie, or Custom. You can select "Custom" which automatically recalls your personalized picture settings.<br>1) Dynamic |

Select this mode to view a sharper image than in "Standard" mode.

2) Standard
Select this mode when the surroundings are bright. This also provides a sharp image.

3) Movie
Select this mode when the surroundings are dark.
This will save power and reduce eye fatigue.

4) Custom
Select this mode when you want to adjust the image according to your preferences.

>> Click here to see an animation clip

| | | |
|---|---|---|
| 3 | Brightness button [☼] | When OSD is not on the screen, push the button to adjust brightness.<br>>> Click here to see an animation clip |
| 4 | Enter button [SOURCE] / SOURCE button | Activates a highlighted menu item. /<br>Push the 'SOURCE', then selects the video signal while the OSD is off. (When the SOURCE button is pressed to change the input mode, a message appears in the upper left of the screen displaying the current mode -- PC, DVI, AV, S-Video, Component and HDMI input signal.)<br>※ Changing the source is only allowed for external devices that are connected to the monitor at the time.<br>>> Click here to see an animation clip |
| 5 | AUTO button | (Available in PC mode only)<br>When the 'AUTO' button is pressed, the Auto Adjustment screen appears as shown in the animated screen on the center. Auto adjustment allows the monitor to self-adjust to the incoming video signal. The values of fine, coarse and position are adjusted automatically.<br>>> Click here to see an animation clip |
| 6 | PIP button | ( Available in PC/DVI Mode Only )<br>In PC or DVI Mode, turns on Video screens in PIP Mode.<br>You can view a picture from AV, S-Video, or Component through the PIP screen in PC and DVI mode. |
| 7 | Power button [⏻] | Turns the monitor On/Off. |
| | Power indicator | This will enable you to see the overall power status of the system. For more information, see the PowerSaver section. |

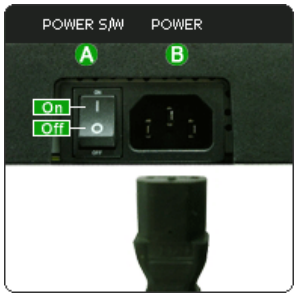
※ See PowerSaver described in the manual for further information regarding power saving functions. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods.

## Rear



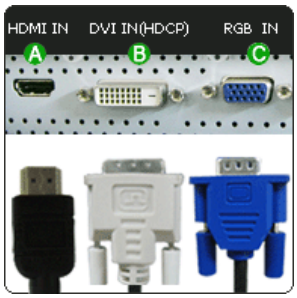
※ The configuration at the back of the monitor may vary from product to product.

## 1 POWER S/W / POWER




A POWER S/W
: Switch the monitor on and off.
B POWER
: Connect the power cord for your monitor to the POWER port on the back of the monitor.

## 2 HDMI IN / DVI IN(HDCP) / RGB IN



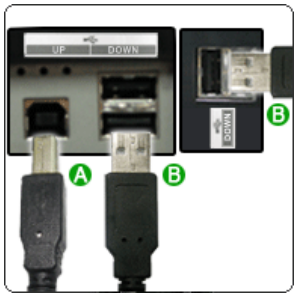

A HDMI IN
: Connect the HDMI IN terminal at the back of your monitor to the HDMI terminal of your digital output device using a HDMI cable.
B DVI IN(HDCP)
: Connect the DVI cable to the DVI IN(HDCP) port on the back of your monitor.
C RGB IN
: Connect the RGB IN terminal at the back of your monitor to your computer.

## 3 VIDEO IN / S-VIDEO IN / AUDIO POWER / AUDIO OUT




A VIDEO IN
: External device (video) input terminal
B S-VIDEO IN
: External device (S-video) input terminal
C AUDIO POWER (DC 12V⎓)
: Connect the speaker power line connected to the speaker to the AUDIO POWER terminal of the monitor.
D AUDIO OUT
: When connecting an external device to your monitor using an HDMI cable, you must connect the AUDIO OUT terminal of your monitor and the SPK terminal (yellowish green - sound input terminal) of the dedicated speaker using a stereo cable to hear audio from the HDMI screen.

## 4 USB connection terminal




A UP (USB upstream port)
: Connect the UP port of the monitor and the USB port of the computer with the USB cable.
B DOWN (USB downstream port)
: Connect the DOWN port of the USB monitor and a USB device with the USB cable.

※ To use DOWN (Downstream Port), you have to connect the UP (Upstream Cable ) to the PC.
Make sure to use the USB cable supplied with this monitor to connect the monitor's UP port and your computer's USB port.

## 5 COMPONENT IN

- Connect the VIDEO OUT port of the DVD / DTV Set-Top Box to the Y, $P_B$,$P_R$ input ports using a component video cable (Y, $P_B$,$P_R$ ).




6 Kensington Lock



- The Kensington lock is a device used to physically fix the system when using it in a public place.
  (The locking device has to be purchased separately.)
  ※ For using a locking device, contact where you purchase it.

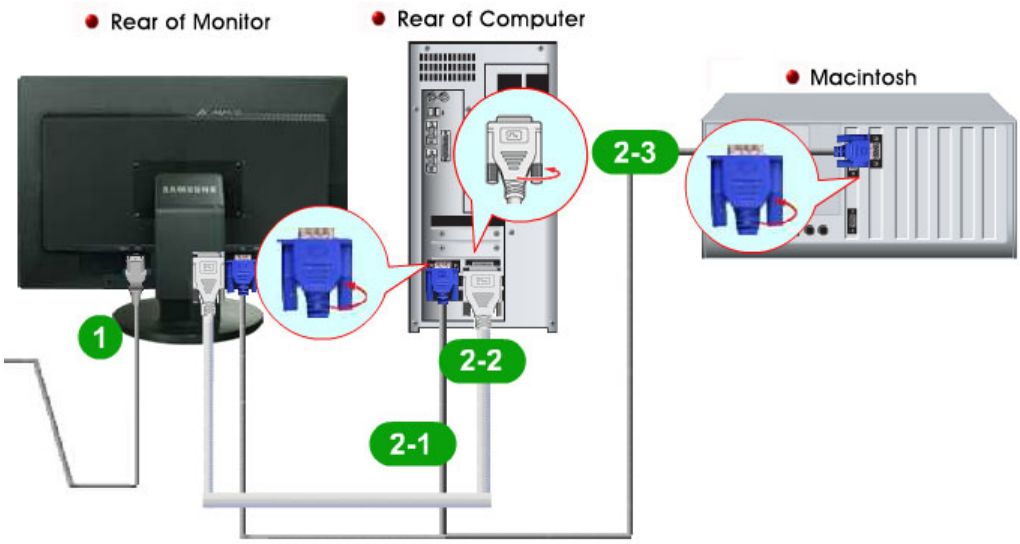
7 Stand Stopper



- Remove the fixing pin on the stand to lift the monitor up and down.

※ See Connecting Cables for further information regarding cable connections.

## Connecting Cables




1 Connect the power cord for your monitor to the POWER port on the back of the monitor.
Plug the power cord for the monitor into a nearby outlet.

2 Use a connection appropriate for your computer.

2-1 Using the RGB (Analog) connector on the video card.
- Connect the signal cable to the 15-pin, RGB IN port on the back of your monitor.

 [ RGB IN ]

2-2 Using the DVI (Digital) connector on the video card.
- Connect the DVI cable to the DVI IN(HDCP) port on the back of your monitor.

 [ DVI IN(HDCP) ]

2-3 Connected to a Macintosh.
Connect the monitor to the Macintosh computer using the RGB IN connection cable.

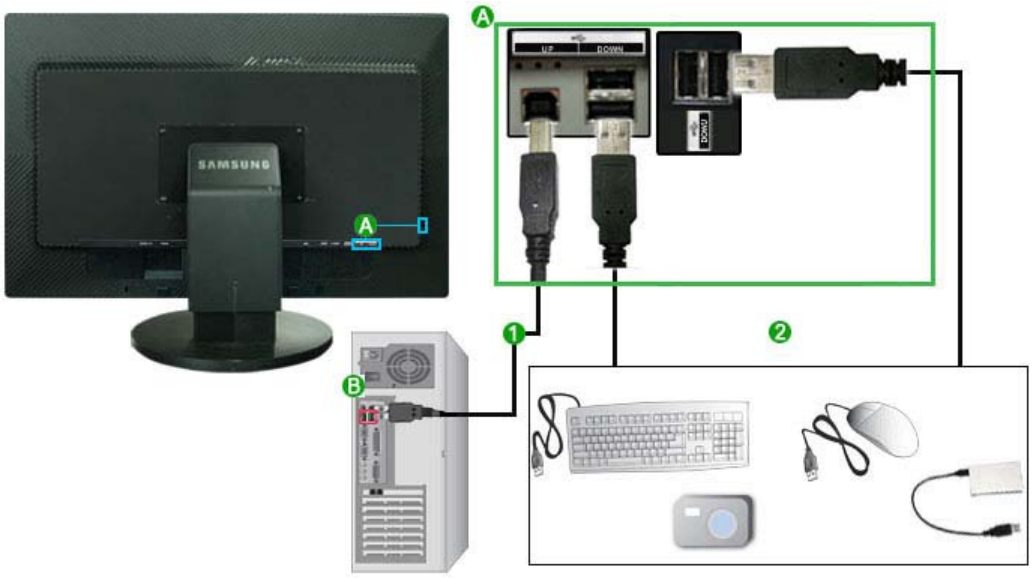
※ If the monitor and the computer are connected, you can turn them on and use them.

## Connecting USB

※ You can use a USB device such as a mouse, keyboard, Memory Stick, or external hard disk drive by connecting them to the DOWN port of the monitor without connecting them to the PC.

**The USB port of the monitor supports High-Speed Certified USB 2.0.**

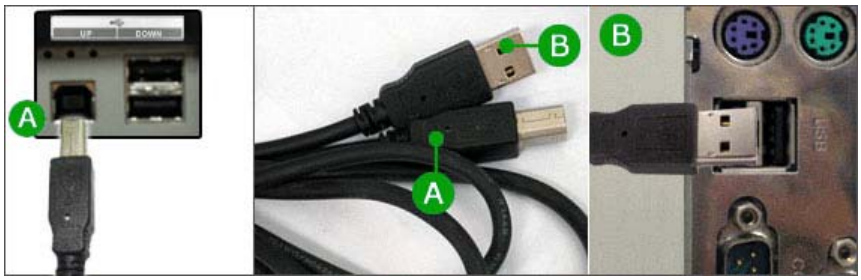
| | High speed | Full speed | Low speed |
|---|---|---|---|
| Data Rate | 480 Mbps | 12 Mbps | 1.5 Mbps |
| Power Consumption | 2.5 W<br>(Max., each port) | 2.5 W<br>(Max., each port) | 2.5 W<br>(Max., each port) |




1. Connect the UP port of the monitor and the USB port of the computer with the USB cable.

※ To use DOWN port, you have to connect the UP (Upstream Cable) to the PC.

※ Make sure to use the USB cable supplied with this monitor to connect the monitor's UP port and your computer's USB port.




2. Connect the DOWN port of the USB monitor and a USB device with the USB cable.
3. The use procedures are as the same as those for using an external device connecting to the PC.

- You can connect and use a keyboard and mouse.
- You can play a file from a media device.
  (Examples of media devices: MP3, digital camera, etc.)
- You can run, move, copy or delete the files on the storage device.
  (Examples of storage devices: external memory, memory card, memory reader, HDD-type MP3 player, etc.)
- You can use other USB devices that can be connected to a computer.

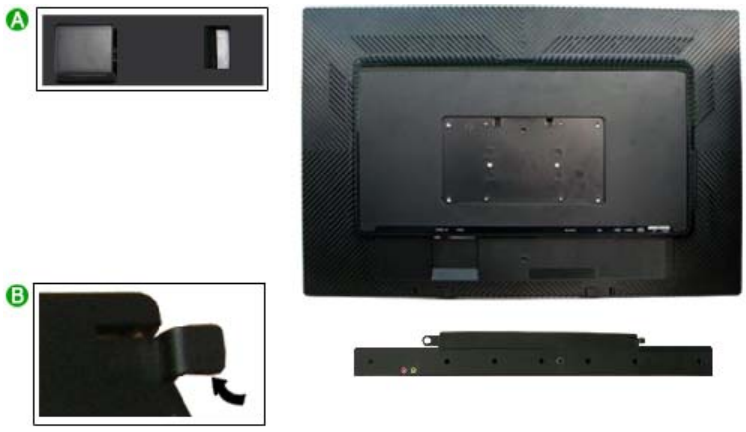
※ When connecting a device to the DOWN port of the monitor, connect the device using a cable appropriate to the device.
(For the purchase of the cable and external devices, ask the service center of the corresponding product.)

※ The company is not liable for problems or damages to an external device caused by using an unauthorized cable for the connection.

※ Some products do not follow the USB standard, and it may cause a malfunction of the device.

※ If the device malfunctions even if it is connected to the computer, contact the service center of the device/computer.

## Connecting a Speaker




※ When connecting a speaker, be careful that the grooves of the monitor and the speaker . (Ⓐ)are aligned with each other.
Adjust the aligned positions until you hear a ‘click’. If a speaker is connected correctly, you can hear a ‘click’.If a speaker is connected without you hearing a ‘click’, the holding part may become damaged.

※ If you need to separate, please pull (Ⓑ) a little and push to the right.




1 MIC / SPK

Ⓐ Connect the red cable of the cables provided when the speaker was purchased to the audio output terminal at the back of the computer.
Connect the other end of the cable to the red terminal at the back of the speaker.

Ⓑ Connect the light green cable of the cables provided when purchasing the speaker to the AUDIO OUT.
Connect the other end of the cable to the light green terminal at the back of the speaker.

2 🎧 / 🎤

Ⓒ Connect a headphone to the black terminal at the right of the speaker.

Ⓓ Connect a microphone to the red terminal at the right of the speaker.

3. By turning part ( + , - ) in the direction shown in the figure below, the speaker turns on and the volume increases.

4. Connect the power line connected to the speaker to the black terminal of the monitor.
This speaker is not connected to an external power source. It is connected to a monitor for the required power.

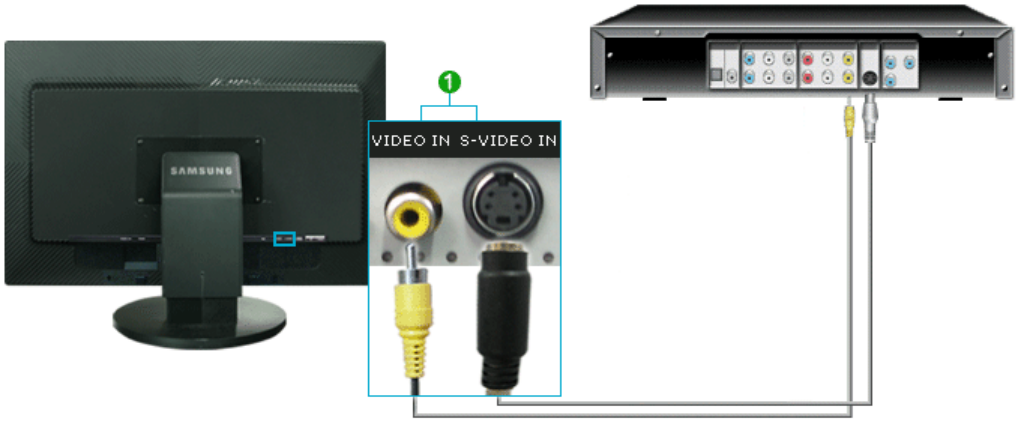
## Connecting to Other devices

※ This monitor allows the user to connect it to such input devices as a DVD player, a VCR or a camcorder without disconnecting the PC.
※ The configuration at the back of the monitor may vary from product to product.

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### Connecting AV Devices

※ The monitor has AV connection terminals to connect AV input devices like DVD, VCR or Camcorder. You may enjoy AV signals as long as the monitor is turned on.




1. Input devices such as DVD, VCR or Camcorder are connected to the VIDEO IN or S-VIDEO IN terminal of the monitor using the RCA or S-Video cable.
Then, start the DVD, VCR or Camcorder with a DVD disc or tape inserted.

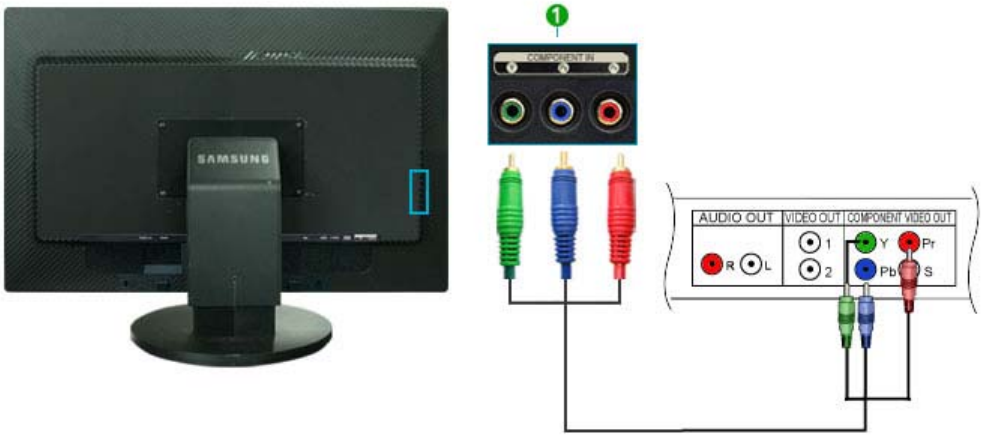
   Select AV or S-Video using the 'SOURCE' button.

2. To hear sound, refer to the Connection section of your conncted external device manual .

---

### Connecting DVD/DTV Set Top Box

※ Connect to the DVD/DTVSet Top Box input if the device has a DVD/DTV connector. You can watch Component simply by hooking up the Component with the monitor as long as the power is on.




1. Connect the VIDEO OUT port of the DVD / DTV Set-Top Box to the $P_R$, $P_B$, Y input ports using a component video cable ($P_R$, $P_B$, Y).
   Then, start the DVD with a DVD disc inserted.
   Select Component using the 'SOURCE' button.
2. To hear sound, refer to the Connection section of your conncted external device manual .

---

### Connecting HDMI

※ You cannot connect a PC to the HDMI IN terminal.




1. Input devices such as digital DVD are connected to the HDMI IN terminal of the monitor using the HDMI cable. When all the connections are completed, connect the power cords for the monitor and DVD (or the device connected to the digital output terminal).
   Select HDMI using the 'SOURCE' button.
2. To listen to sound via an external device, refer to the information in its user manual on how to connect the device.
   To listen to sound using a dedicated speaker (optional), connect the power cable from the speaker to the AUDIO POWER terminal of the monitor and then connect the AUDIO OUT terminal of the monitor and the SPK (light green) terminal of the speaker using a stereo cable.

Connecting Cables  Using the Stand

## Using the Stand

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## Sliding stand




Ⓐ Stand Stopper

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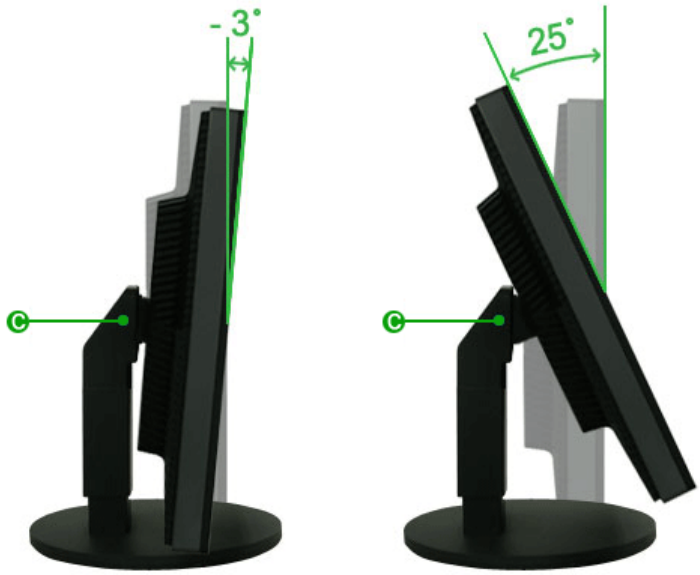
## Swivel stand




※ Using (Ⓑ),You can swivel the monitor left and right at an angle of 350° to set the monitor lengthwise. The rubber under the stand is to avoid the monitor slide.
※ When you try to rotate the monitor in the state of the power cord or cable connecting to the monitor, the power cord of cable can be destroyed.

---

## Tilt angle




※ Using (C), You can adjust the tilt anlgle within a range of 3° forward to 25° backward for the most comfortable viewing angle.

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### Attaching a Base

※ This monitor accepts a 200 mm x 100 mm VESA-compliant Mounting interface pad.




A Monitor

B Mounting interface pad (Sold separately)

1. Turn off your monitor and unplug its power cord.
2. Lay the LCD monitor face-down on a flat surface with a cushion beneath it to protect the screen.
3. Remove four screws and then remove the stand from the LCD monitor.
4. Align the mounting interface Pad with the holes in the rear cover mounting pad and secure it with four screws that came with the arm-type base, wall mount hanger or other base.

※

- Do not use screws longer than the standard dimension, as they may damage the

inside of the Monitor.

- For wall mounts that do not comply with VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not use screws that do not comply with the VESA standard screw specifications.
  Do not fasten the screws too tightly, as this may damage the product or cause the product to fall, leading to personal injury.
  Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.

※

- To mount the monitor on a wall, you should purchase the wall mounting kit that allows you to mount the monitor at least 10 cm away from the wall surface.
- Contact the nearest Samsung Service Center for more information. Samsung Electronics will not be responsible for damages caused by using a base other than those specified.
- **Please use Wall Mount according to the International standards.**






## Monitor Driver

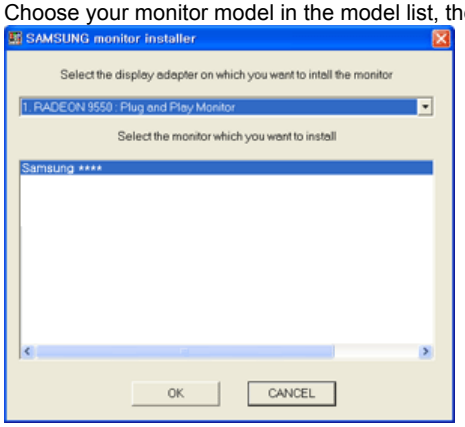
When prompted by the operating system for the monitor driver, insert the CD-ROM included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions appropriate for the operating system you have.

Prepare a blank disk and download the driver program file at the Internet web site shown below.

Internet web site :http://www.samsung.com/ (Worldwide)
http://www.samsung.com/monitor (U.S.A)
http://www.sec.co.kr/monitor (Korea)
http://www.samsungmonitor.com.cn/ (China)

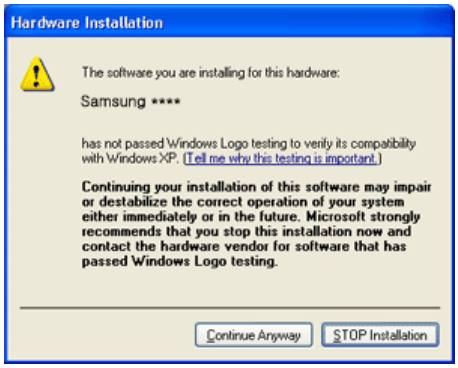
### Installing the Monitor Driver (Automatic)

1. Insert the CD into the CD-ROM drive.
2. Click **"Windows"**.
3. Choose your monitor model in the model list, then click the "OK" button.




4.

If you can see following message window, then click the "Continue Anyway" button. Then click the "OK" button (Microsoft® Windows® XP/2000 Operating System).




※ This monitor driver is under certifying MS logo, and this installation doesn't damage your system.
The certified driver will be posted on Samsung Monitor homepage

http://www.samsung.com/

❺ Monitor driver installation is completed.

## Installing the Monitor Driver (Manual)

Windows Vista | Windows XP | Windows 2000 | Windows ME | Windows NT | Linux

### Microsoft® Windows Vista™ Operating System

❶ Insert your Manual CD into your CD-ROM drive.
❷ Click (Start) and "Control Panel". Then, double-click on "Appearance and Personalization".




❸ Click "Personalization" and then "Display Settings".

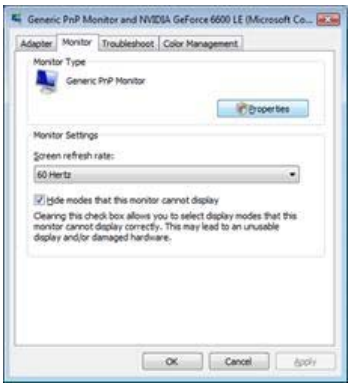



❹

Click "Advanced Settings…".




5 Click "Properties" in the "Monitor" tab. If the "Properties" button is deactivated, it means the configuration for your monitor is completed. The monitor can be used as is.
If the message “Windows needs…” is displayed, as shown in the figure below, click "Continue".



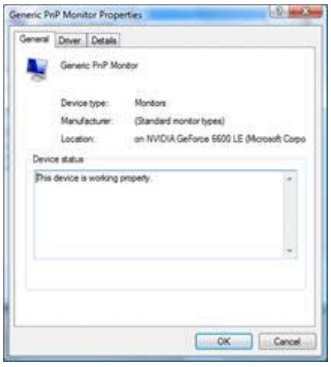




※ This monitor driver is under certifying MS logo, and this installation doesn't damage your system.
The certified driver will be posted on Samsung Monitor homepage

http://www.samsung.com/

6 Click "Update Driver…" in the "Driver" tab.





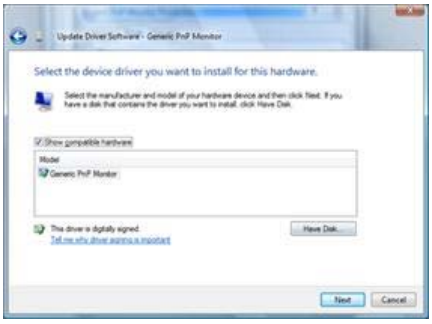


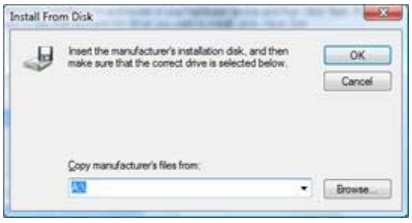
7 Check the "Browse my computer for driver software" checkbox and click "Let me pick from a list of device drivers on my computer".



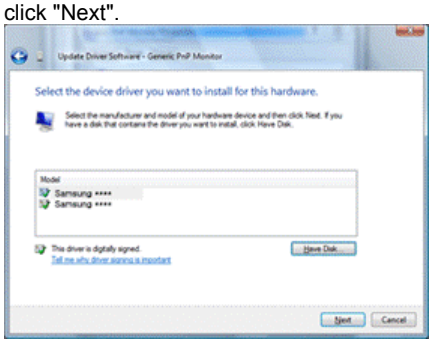



8 Click "Have Disk…" and select the folder (for example, D:\Drive) where the driver setup file is located, and click "OK".

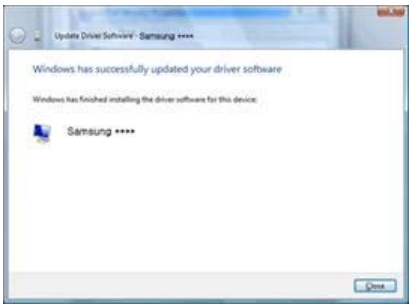


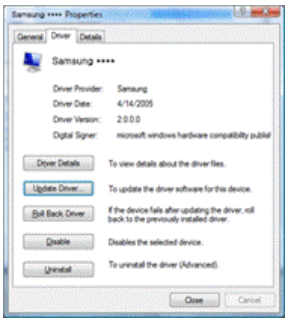



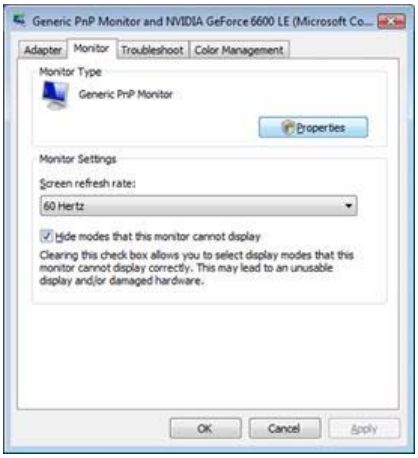

9 Select the model that matches your monitor from the list of monitor models on the screen, and click "Next".

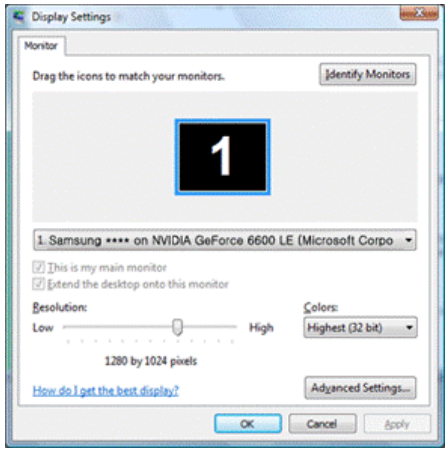



10 Click "Close"→ "Close" → "OK" → "OK" on the following screens displayed in sequence.



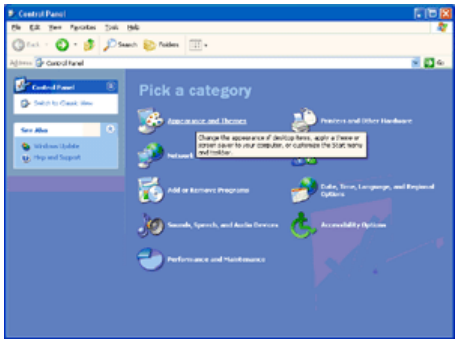

## Microsoft® Windows® XP Operating System

1 Insert the CD into the CD-ROM drive.

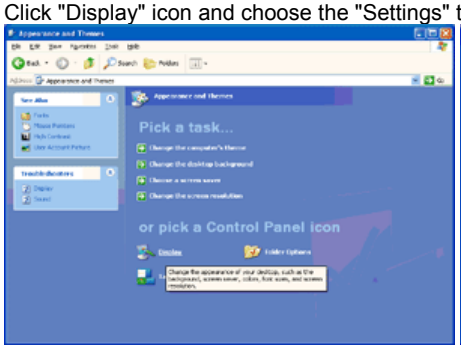
2

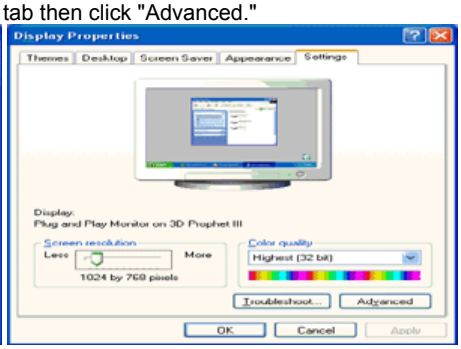
Click "Start" → "Control Panel" then click the "Appearance and Themes" icon.



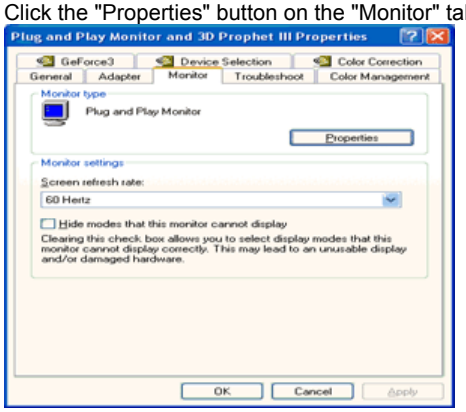



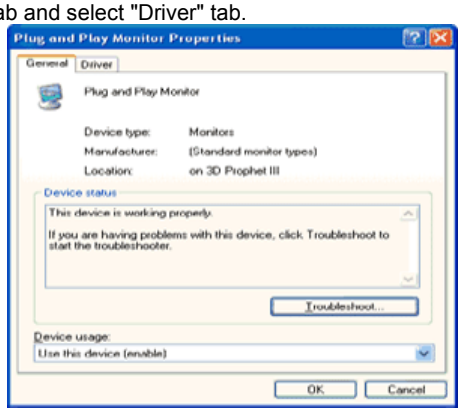

❸ Click "Display" icon and choose the "Settings" tab then click "Advanced."



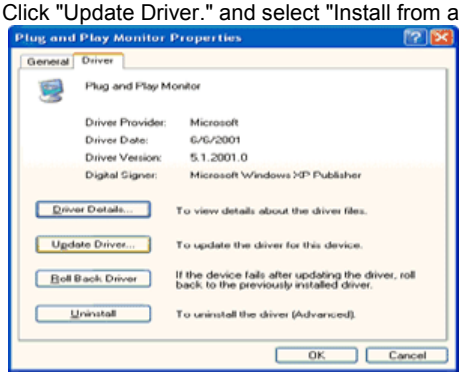



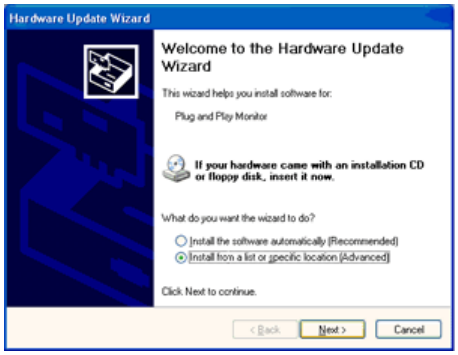

❹ Click the "Properties" button on the "Monitor" tab and select "Driver" tab.



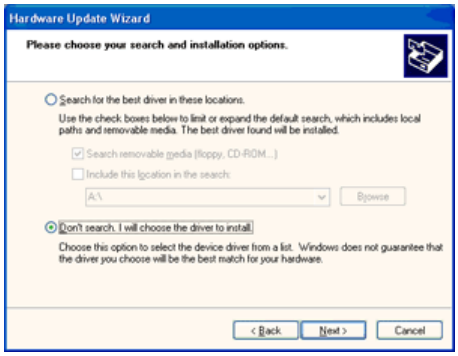

❺ Click "Update Driver." and select "Install from a list or." then click the "Next" button.

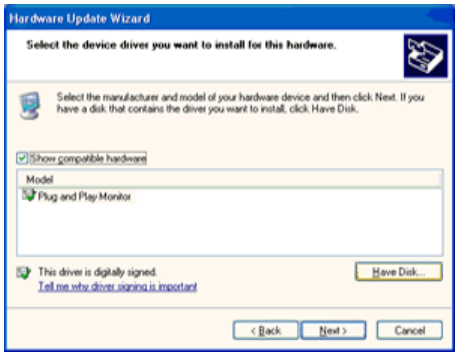


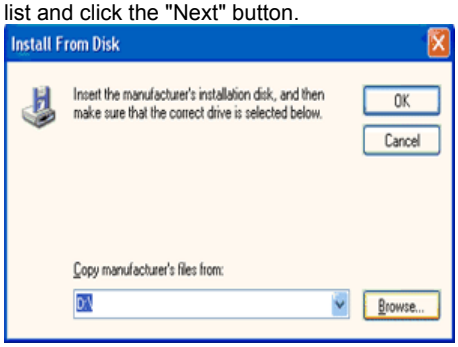

❻

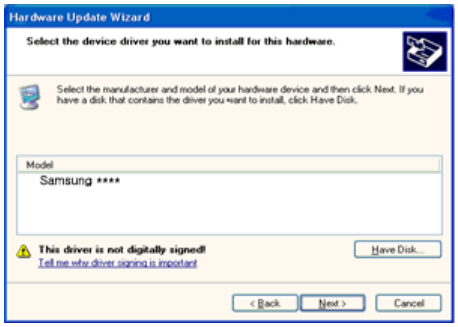
Select "Don't search ,I will." then click "Next" and then click "Have disk".



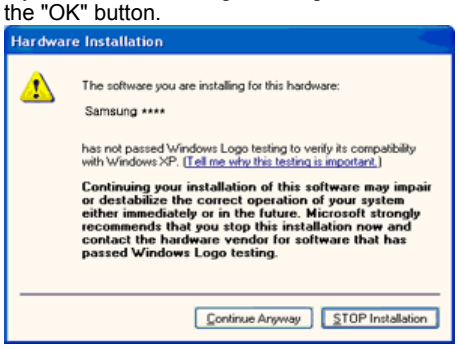




❼ Click the "Browse" button then choose A:(D:\Driver) and choose your monitor model in the model list and click the "Next" button.




❽ If you can see following "Message" window, then click the "Continue Anyway" button. Then click the "OK" button.

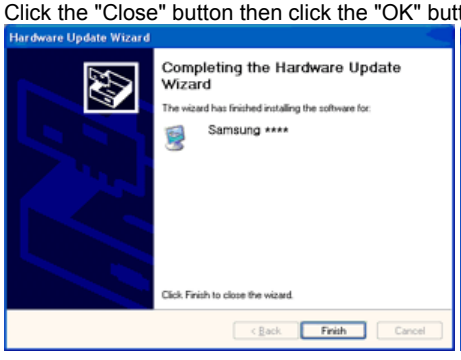


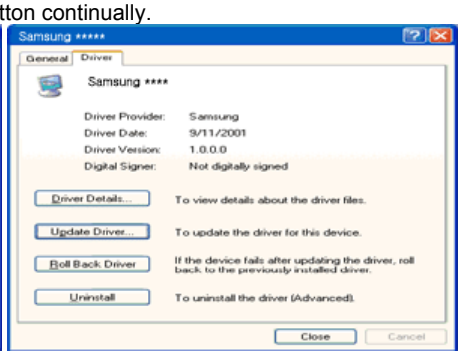

※ This monitor driver is under certifying MS logo, and this installation doesn't damage your system.
The certified driver will be posted on Samsung Monitor homepage

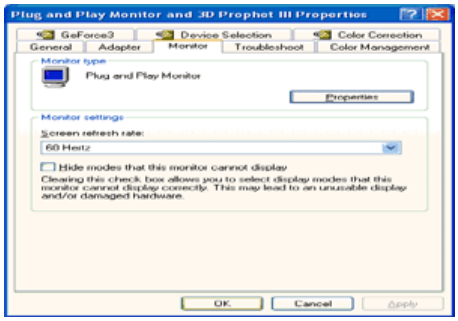
http://www.samsung.com/

❾

Click the "Close" button then click the "OK" button continually.






⑩ Monitor driver installation is completed.

## Microsoft® Windows® 2000 Operating System

When you can see "Digital Signature Not Found" on your monitor, follow these steps.

1. Choose the "OK" button on the "Insert disk" window.
2. Click the "Browse" button on the "File Needed" window.
3. Choose A:(D:\Driver) then click the "Open" button and then click the "OK" button.

How to install

1. Click "Start," "Setting," and then "Control Panel."
2. Double click the "Display" icon.
3. Select the "Settings" tab and click the "Advanced Properties" button.
4. Choose "Monitor."
   - Case1 : If the "Properties" button is inactive, it means your monitor is properly configured. Please stop installation
   - Case2 : If the "Properties" button is active, click the "Properties" button then follow next steps continually.
5. Click "Driver" and then click "Update Driver." then click the "Next" button.
6. Choose "Display a list of the known drivers for this device so that I can choose a specific driver" then click "Next" and then click "Have disk".
7. Click the "Browse" button then choose A:(D:\Driver).
8. Click the "Open" button, then click the "OK" button.
9. Choose your monitor model and click the "Next" button then click "Next" button.
10. Click the "Finish" button then the "Close" button.

If you can see the "Digital Signature Not Found" window then click the "Yes" button. And click the "Finish" button then the "Close" button.

## Microsoft® Windows® Millennium Operating System

1. Click "Start," "Setting," and then "Control Panel."
2. Double click the "Display" icon.
3. Select the "Settings" tab and click the "Advanced Properties" button.
4. Select the "Monitor" tab.
5. Click the "Change" button in the "Monitor Type" area.
6. Choose "Specify the location of the driver."
7. Choose "Display a list of all the driver in a specific location." then click the "Next" button.
8. Click the "Have Disk" button.
9. Specify A:\(D:\driver) then click the "OK" button.
10. Select "Show all devices" and choose the monitor that corresponds to the one you connected to your computer and click "OK".
11. Continue choosing "Close" button and "OK" button until you close the Display Properties dialogue box.

## Microsoft® Windows® NT Operating System

1. Click "Start," "Settings," "Control Panel," and then double-click "Display" icon.

2. In the Display Registration Information window, click the Settings tab and then click "All Display Modes".
3. Select a mode that you wish to use (Resolution, Number of colors and Vertical frequency) and then click "OK".
4. Click the "Apply" button if you see the screen working normally after clicking "Test". If the screen is not normal, change to a different mode (lower mode of resolution, colors, or frequency).

※ If there is no Mode at All Display Modes, select the level of resolution and vertical frequency by referring to the Preset Timing Modes in the user guide.

### Linux Operating System

To execute X-Window, you need to make the X86Config file, which is a type of system setting file.

1. Press "Enter" at the first and the second screen after executing the X86Config file.
2. The third screen is for setting your mouse.
3. Set a mouse for your computer.
4. The next screen is for selecting a keyboard.
5. Set a Keyboard for your computer.
6. The next screen is for setting your monitor.
7. First of all, set a horizontal frequency for your monitor. (You can enter the frequency directly.)
8. Set a vertical frequency for your monitor. (You can enter the frequency directly.)
9. "Enter" the model name of your monitor. This information will not affect the actual execution of X-Window.
10. You have finished setting up your monitor.
Execute X-Window after setting other requested hardware.



## Natural Color

### Natural Color




One of the recent problems in using a computer is that the color of the images printed out by a printer or other images scanned by a scanner or a digital camera are not the same as those shown on the monitor.
the Natural Color S/W is the very solution for this problem. It is a color administration system developed by Samsung Electronics in association with Korea Electronics & Telecommunications Research Institute (ETRI).
This is only available for Samsung monitors and ensures that the color of the images on the monitor are the same as the printed or scanned images.
For more information, refer to Help (F1) in the software program.

### Installing the Natural Color Software

Insert the CD included with the Samsung monitor into the CD-ROM Drive. The initial Natural Color screen will appear. Click on Natural Color in the startup window to install the Natural Color software.
To install the program manually, insert the CD included with the Samsung monitor into the CD-ROM Drive, click the Windows **[Start]** button, select **[Run...]** .
Enter D:\Color\NCProSetup.exe and then press the <Enter> key.
(If the drive where the CD is inserted is not D:\, enter the applicable drive.)

### Uninstalling the Natural Color Software Program

Select **"Settings" / "Control Panel"** from the **"Start"** menu and then double-click **"Add/Delete a program"**
Select Natural Color from the list and then click the "Add/Delete" button.



## MagicTune™

# Installation

1. Insert the installation CD into the CD-ROM drive.
2. Click the MagicTune™ installation file.
3. Select installation Language, Click "Next".
4. When the Installation Shield Wizard window appears, click "Next."
5. Select "I agree to the terms of the license agreement" to accept the terms of use.
6. Choose a folder to install the MagicTune™ program.
7. Click "Install."
8. The "Installation Status" window appears.
9. Click "Finish."
10. When the installation is complete, the MagicTune™ executable icon appears on your desktop.

Double-click the icon to start the program.

MagicTune™ execution icon may not appear depending on specification of computer system or monitor.
If that happens, press F5 Key.

### Installation Problems (MagicTune™)

The installation of MagicTune™ can be affected by such factors as the video card, motherboard and the network environment.

### System Requirements

**OS**

- Windows 2000
- Windows XP Home Edition
- Windows XP Professional
- Windows Vista™

**It is recommended using MagicTune™ in Windows® 2000 or later.**

**Hardware**

- 32MB Memory above
- 60MB Hard disk space above

* For more information, visit the MagicTune™ website.

# Uninstall

The MagicTune™ program can be removed only by using the "Add or Remove Programs" option of the Windows® Control Panel.

Perform the following steps remove MagicTune™.

1. Go to [Task Tray] ' [Start] ' [Settings] and select [Control Panel] in the menu. If the program runs on Windows® XP, go to [Control Panel] in the [Start] menu.
2. Click the "Add or Remove Programs" icon in Control Panel.
3. In the "Add or Remove Programs" screen, scroll down to find "MagicTune™". Click on it to highlight it.
4. Click the "Change/Remove" button to remove the program.
5. Click "Yes" to begin the uninstall process.
6. Wait until the "Uninstall Complete" dialog box appears.

Visit the MagicTune™ website for technical support for MagicTune™, FAQs (questions and answers) and software upgrades.






## Control Buttons




| | |
|---|---|
| MENU | Use this button to open the on-screen menu and exit from the menu screen or close screen adjustment menu. |
| | PC/DVI(PC) : MagicBright™<br>MagicBright™ is a new feature providing the optimum viewing environment depending on the contents of the image you are watching.<br>Then press the button again to circle through available preconfigured modes.<br>( Custom → Text → Internet → Game → Sports → Movie → Dynamic CR ) |
| | AV/S-Video/Component/HDMI : Picture mode<br>The Monitor has four automatic picture settings that are preset at the factory.<br>Then press the button again to circle through available preconfigured modes.<br>( Dynamic → Standard → Movie → Custom ) |
| ▼ | This button allows you to adjust items in the menu. |

| | |
|---|---|
| ▲ | This button allows you to adjust items in the menu. |
| ☼ | When OSD is not on the screen, push the button to adjust brightness. |
| SOURCE | Press this button to activate a highlighted menu item.<br>Selects the input signal while the OSD is off. |
| AUTO | Press to self-adjust to the incoming Analog signal.<br>The values of fine,coarse and position are adjusted automatically. |
| PIP | Push the PIP button to turn PIP On/Off. |



## Direct Functions

### AUTO




| Menu | Description |
|---|---|
| AUTO | When the 'AUTO' button is pressed, the Auto Adjustment screen appears as shown in the animated screen on the center.<br>Auto adjustment allows the monitor to self-adjust to the incoming PC signal. The values of fine, coarse and position are adjusted automatically.<br>(Available in PC mode only)<br><br>To make the automatic adjustment function sharper, execute the 'AUTO' function while the AUTO PATTERN is on. |

- If auto adjustment does not work properly, press 'AUTO' button again to adjust picture with more accuracy.
- If you change resolution in the control panel, auto function will be executed automatically.

## OSD Lock & Unlock

- When pressing the AUTO or PIP button after locking the OSD




- When pressing the MENU button after locking the OSD




| Menu | Description |
|---|---|
| Locked | This is the function that locks the OSD in order to keep the current states of settings or prevent others from adjusting the current settings.<br><br>Lock : Hold down the menu button for more than five (5) seconds to activate the OSD adjustment lock function.<br><br>Unlock : Hold down the menu button for more than five (5) seconds to deactivate the OSD adjustment lock function. |

※ Though the OSD adjustment lock function is activated, you can still adjust the brightness and contrast, and adjust MagicBright ( ) using the Direct button.

## MagicBright™







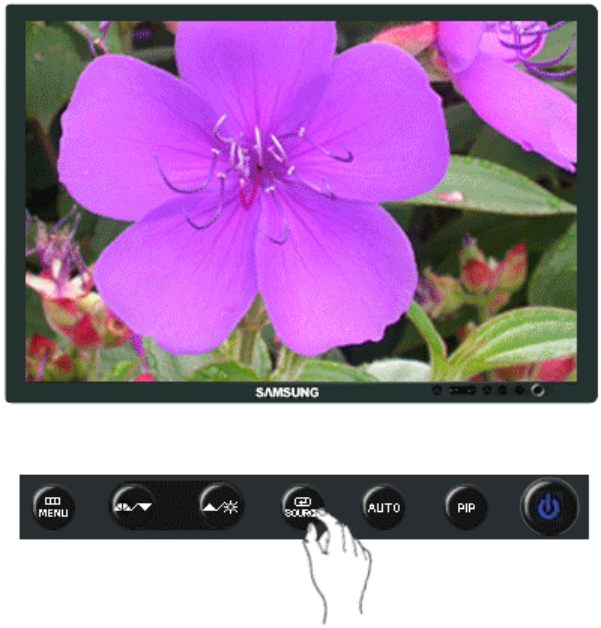
| Menu | Description | Play/Stop |
|---|---|---|
| MagicBright™ /Mode | PC/DVI(PC) : MagicBright™<br>MagicBright™ is a new feature providing the optimum viewing environment depending on the contents of the image you are watching.<br>Then press the button again to circle through available preconfigured modes.<br>(Custom → Text → Internet → Game → Sports → Movie → Dynamic CR )<br><br>AV/S-Video/Component/HDMI : Picture mode<br>The Monitor has four automatic picture settings that are preset at the factory. Then press the button again to circle through available preconfigured modes.<br>( Dynamic → Standard → Movie → Custom ) | MagicBright™<br><br>Mode |

## Brightness




| Menu | Description |
|---|---|
| Brightness | When OSD is not on the screen, push the button to adjust brightness. |

## SOURCE




| Menu | Description |
|---|---|
| SOURCE | Selects the input signal while the OSD is off.<br>(When the source button is pressed to change the input mode, a message appears in the upper left of the screen displaying the current mode -- PC, DVI, AV, S-Video and , Component and HDMI input signal.) |

※ Changing the source is only allowed for external devices that are connected to the monitor at the time.

### PIP ( Available in PC/DVI(PC) Mode Only )







| Menu | Description |
|---|---|
| PIP | Push the PIP button to turn PIP screen On/Off.<br>You can view a picture from AV, S-Video, or Component through the PIP screen in PC and DVI (PC) mode. |



## OSD Function

### Input







※ The default setting may different depending on the selected Input Mode (input signal source selected in External Input List) and the selected resolution.

| Menu | Description | Play/Stop |
|---|---|---|
| Source List | Use to select PC or other external input sources connected to the Monitor.<br>Use to select the screen of your choice.<br><br>1) PC<br>2) DVI<br>3) AV<br>4) S-Video<br>5) Component<br>6) HDMI<br><br>MENU → ↵ → ↵ → ▲, ▼ → ↵ | |
| Edit Name | Name the input device connected to the input jacks to make your input source selection easier.<br><br>1) PC<br>2) DVI<br>3) AV<br>4) S-Video<br>5) Component<br>6) HDMI<br><br>MENU → ↵ → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → ↵ | |

## Picture (PC / DVI : PC)




※ The default setting may different depending on the selected Input Mode (input signal source selected in External Input List) and the selected resolution.

| Menu | Description | Play/Stop |
|---|---|---|
| MagicBright™ | MagicBright™ is a new feature providing optimum viewing environment depending on the contents of the image you are watching. Currently seven different modes are available : Custom, Text, Internet, Game, Sport, Movie and Dynamic CR. Each mode has its own pre-configured brightness value. You can easily select one of seven settings by simply pressing MagicBright™ control button.<br>1) Custom<br>: Although the values are carefully chosen by our engineers, the pre-configured values may not be comfortable to your eyes depending on your taste. If this is the case, adjust the brightness and contrast by using the OSD menu.<br>2) Text<br>: For documentations or works involving heavy text.<br>3) Internet<br>: For working with a mixture of images such as texts and graphics.<br>4) Game<br>: For watching motion pictures such as a game.<br>5) Sports<br>: For watching motion pictures such as a Sports.<br>6) Movie<br>: For watching motion pictures such as a DVD or Video CD.<br>7) Dynamic CR<br>: Dynamic CR is to automatically detect distribution of inputted visual signal and adjust to create optimum contrast.<br>MENU →▲,▼→↵→↵→▲,▼→↵ | |
| | You can use the on-screen menus to change the contrast and brightness according to personal preference.<br>1) Contrast<br>: Adjust the Contrast. | Contrast |

**Custom**

2) Brightness
: Adjust the Brightness.
- Not available in MagicBright™ mode of Dynamic CR.



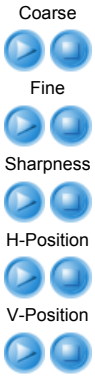

MENU →▲,▼→↵ →▲,▼→↵ →▲,▼→↵ →▲,▼→↵

※ If you adjust picture using Custom function, MagicBright™ will turn to Custom mode.

**Image Lock**

Image Lock is used to fine-tune and get the best image by removing noise that creates unstable images with jitter and shimmer. If satisfactory results are not obtained using the Fine adjustment, use the Coarse adjustment and then use Fine again.
- Available in PC mode only

1) Coarse
: Adjust the screen so that all vertical lines (noise) on the screen are removed. Then, use the horizontal position adjustment menu to move the screen to the center, as the screen position may change after the noise has been removed.
2) Fine
: Removes noise such as horizontal stripes. If the noise persists even after Fine tuning, repeat it after adjusting the frequency (clock speed).
3) Sharpness
: Adjust the Sharpness.
- Not available in MagicBright™ mode of Dynamic CR.
4) H-Position
: Adjusts the screen location horizontally.
5) V-Position
: Adjusts the screen location vertically.




MENU →▲,▼→↵ →▲,▼→↵ →▲,▼→↵ →▲,▼→↵

**Auto Adjustment**

The values of Fine, Coarse, position are adjusted automatically. By changing the resolution in the control panel, auto function is performed.
- Available in PC mode only



MENU →▲,▼→↵ →▲,▼→↵

**Size**

You can switch the Size.

1) Wide
2) 4:3



MENU →▲,▼→↵ →▲,▼→↵ →▲,▼→↵

**PIP Picture**

When the PIP is on, you can adjust the PIP screen setting.

1) Contrast
: Adjusts the Contrast of the PIP window on the screen.
2) Brightness
: Adjusts the Brightness of the PIP window on the screen.
3) Sharpness
: Adjusts the Sharpness of the PIP window on the screen
4) Color
: Adjusts the Color of the PIP window on the screen
5) Tint
: Adds a natural tone to the PIP window.
- Available in AV/S-Video Mode Only




MENU →▲,▼→↵ →▲,▼→↵ →▲,▼→↵ →▲,▼→↵

## Picture (AV/S-Video/Component/HDMI)




※ The default setting may different depending on the selected Input Mode (input signal source selected in External Input List) and the selected resolution.

| Menu | Description | Play/Stop |
|---|---|---|
| Mode | The Monitor has four automatic picture settings ("Dynamic", "Standard", "Movie" and "Custom") that are preset at the factory. You can activate either Dynamic, Standard, Movie, or Custom. You can select "Custom" which automatically recalls your personalized picture settings.<br><br>1) Dynamic<br>: Select this mode to view a sharper image than in "Standard" mode.<br>2) Standard<br>: Select this mode when the surroundings are bright. This also provides a sharp image.<br>3) Movie<br>: Select this mode when the surroundings are dark. This will save power and reduce eye fatigue.<br>4) Custom<br>: Select this mode when you want to adjust the image according to your preferences<br><br>MENU → ▲, ▼ → ↵ → ↵ → ▲, ▼ → ↵ | |
| Custom | You can use the on-screen menus to change the contrast and brightness according to personal preference.<br><br>1) Contrast<br>: Adjust the Contrast.<br>2) Brightness<br>: Adjust the Brightness.<br>3) Sharpness<br>: Adjust the Sharpness.<br>4) Color<br>: Adjust the picture Color.<br>5) Tint<br>: Adds a natural tone to the display.<br>- Available in AV/S-Video Mode Only | Contrast<br>Brightness<br>Sharpness<br>Color<br>Tint |

MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → ↵

| | | |
|---|---|---|
| Size | You can switch the Size.<br>• AV / S-Video : Wide / 16:9 / Zoom1 / Zoom2 / 4:3<br>• Component / HDMI : Wide / 16:9 / 4:3 | |

MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → ↵

| | | |
|---|---|---|
| Film Mode | You can turn Film Mode Off / On.<br>The Film Mode feature offers you a theater-quality viewing experience.<br>In Component mode, film mode is only available for 480i and 576i input. | |

MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → ↵

**MagicColor Pro - Not available in MagicBrightT mode of Dynamic CR.**







※ The default setting may different depending on the selected Input Mode (input signal source selected in External Input List) and the selected resolution.

| Menu | Description | Play/Stop |
|---|---|---|
| Color Innovation | Color Innovation function provides optimized color for personal favor to view effectively with WCG-CCFL which was applied to Samsung Electronics for the first time.<br>1) Brilliant<br>If you select "Brilliant", you can view a more clear and vibrant image<br>2) Mild<br>If you select "Mild", you can view a more natural and soft image.<br>3) Normal<br>If you select “Normal”, you can watch the most general standard screen.<br>4) Demo<br>If you select “Demo”, you can compare the current screen with the screen when the Color Innovation function is enabled.<br>5) Custom<br>The pre-configured values may not be comfortable to your eyes | |

depending on your taste. If this is the case, adjust the Picture and Color menu by using the OSD to fit your eyes.

MENU →▲,▼→ ↵ →↵ →▲,▼→↵

| | | |
|---|---|---|
| Color Tone | Adjusts the individual R, G, B color controls.<br>PC/DVI(PC)<br>: Cool4 / Cool3 / Cool2 / Cool1 / Normal / Warm1 / Warm2 / Custom<br>AV/S-Video/Component/HDMI<br>: Cool2 / Cool1 / Normal / Warm1 / Warm2<br><br>MENU →▲,▼→ ↵ →▲,▼→ ↵ →▲,▼→↵ |  |
| Color Control | Adjusts the individual R, G, B color controls.<br>1) Red<br>2) Green<br>3) Blue<br>- Available in PC/DVI(PC) Mode Only<br><br>MENU →▲,▼→ ↵ →▲,▼→ ↵ →▲,▼→↵ |  |
| Gamma | Gamma correction changes the luminance of the colors with intermediate luminance.<br>Increased Mode number - Displays the full screen more naturally and softer and sharpens the dark scale.<br>Decreased Mode number - Displays the full screen sharper and improves the bright scale.<br>- Available in PC/DVI(PC) Mode Only<br><br>MENU →▲,▼→ ↵ →▲,▼→ ↵ →▲,▼→↵ |  |
| 6-Color | 6 types: Red, Green, Blue, Cyan, Magenta and Yellow - Can adjust each of them to the preference of the user.<br>1) Saturation<br>Adjusts the color saturation.<br>2) Hue<br>Adjusts the color tones.<br>3) Reset<br>Returns to the original screen mode.<br><br>MENU →▲,▼→ ↵ →▲,▼→ ↵ →▲,▼→ ↵ →▲,▼→ ↵ →▲,▼→↵ | Saturation<br><br>Hue<br><br>Reset<br> |

## PIP (PC / DVI : PC)







※ The default setting may different depending on the selected Input Mode (input signal source selected in External Input List) and the selected resolution.

| Menu | Description | Play/Stop |
|---|---|---|
| PIP | Turn the PIP Screen on or off.<br>You can view a picture from AV, S-Video, or Component through the PIP screen in PC and DVI mode.<br>1) Off<br>2) On<br>MENU → ▲, ▼ → ↵ → ↵ → ▲, ▼ → ↵ | |
| Source | Select the input source for the PIP.<br>You can view a picture from AV, S-Video, or Component through the PIP screen in PC and DVI(PC) mode.<br>MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → ↵ | |
| Size | Change the Size of the PIP window.<br>/ / / <br>If you select , in Size, Position will not be activated.<br>If the PIP Source is AV or S-Video: / <br>If the PIP Source is Component : / / / <br>If you change the PIP Source to AV or S-Video when the PIP Source is set to Component and or is selected, the PIP Size will change to automatically.<br>MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → ↵ | |
| Position | Change the Position of the PIP window.<br>/ / / <br>MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → ↵ | |

Setup







※ The default setting may different depending on the selected Input Mode (input signal source selected in External Input List) and the selected resolution.

| Menu | Description | Play/Stop |
|---|---|---|
| Language | You can choose one of 11 languages.<br>1) English 2) Deutsch 3) Français 4) Español 5) Italiano<br>6) Svenska 7) Português 8) Русский 9) 한국어 10) 中国语<br>11) 日本語<br><br>MENU →▲,▼→↵ →↵ →▲,▼→↵ | |
| Transparency | Changes the opaqueness of the background of the OSD.<br>1) High<br>2) Medium<br>3) Low<br>4) Opaque<br><br>MENU →▲,▼→↵ →▲,▼→↵ →▲,▼→↵ | |
| Blue Screen | If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue screen" mode to "Off".<br><br>- Operates only for AV, S-Video, Component and HDMI mode.<br><br>MENU →▲,▼→↵ →▲,▼→↵ →▲,▼→↵ | |
| HDMI Black Level | When a DVD or set-top box is connected to your TV via HDMI, it may cause a degradation in the screen quality, such as an increase in the black level, a low contrast, or discoloration, etc., depending on the external device connected. In this case, adjust the screen quality of your TV by configuring the HDMI black level.<br><br>- Operates only for HDMI mode.<br><br>MENU →▲,▼→↵ →▲,▼→↵ →▲,▼→↵ | |
| | The Safety Screen function is used to prevent afterimages that may appear when a still picture is displayed on the screen over a long time. | |

**Safety Screen**

- The Screen Scroll function scrolls the screen for the specified period of time.
- This function is not available when the power is turned off.

1) Safety Screen

: Determines whether to turn the Screen Scroll function Off or On.

2) Interval

: Determines the time interval to run the Screen Scroll operation. (1~10 Hour)
The time is calculated on the basis of the power on time.

3) Second

: Determines the time period to run the Screen Scroll operation. (10~50 Second)

4) Type

: You can change the Safety Screen Type. (Pixel, Bar, Eraser)




MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → ↵

**Audio Power**

When your PC is in Power Saving mode, and this function is turned 'On', power is supplied to the 'AUDIO POWER' terminal of the external speaker on the back of your monitor. If this function is turned 'Off', power is not supplied to that terminal.



MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → ↵

**LED Brightness**

Adjusts the brightness of the Power LED.
The higher the level, the brighter the Power LED.
If you set a brightness level, the LED blinks and is saved after one second.



MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → ↵

**Reset**

Picture parameters are replaced with the factory default values.

1) Image Reset

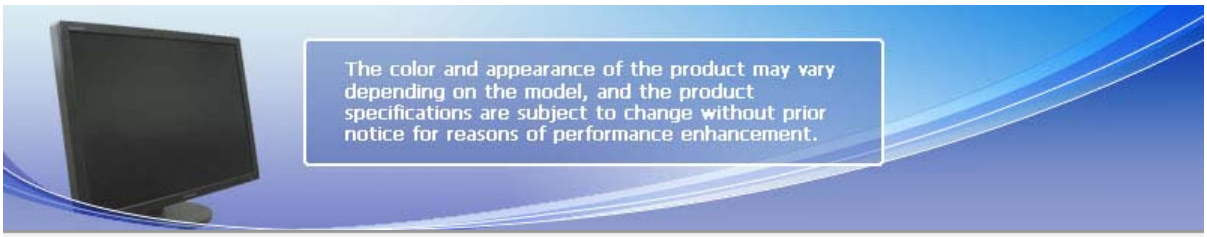
: Image parameters are replaced with the factory default values.
- Available in PC mode only

2) Color Reset

: Color parameters are replaced with the factory default values.
- Available in PC/DVI(PC) Mode Only
- Not available in MagicBright™ mode of Dynamic CR.




MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → ↵






## Check List

Before calling for service, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.

| Symptom | Check List | Solutions |
|---|---|---|
| No images on the screen.<br>I cannot turn on the monitor. | Is the power cord connected properly? | Check the power cord connection and supply. |
| | Can you see "Check signal cable" on the screen? | (Connected using the D-sub cable)<br>Check the signal cable connection.<br><br>(Connected using the DVI cable)<br>If you still see an error message on the screen when the monitor is connected properly, check to see if the monitor status is set to analog.<br>Press 'SOURCE' button to have the monitor double-check the input signal source. |
| | If the power is on, reboot the computer to see the initial screen(the login screen), which can be seen. | If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows ME/XP/2000) and then change the frequency of the video card.<br>(Refer to the Preset Timing Modes)<br><br>If the initial screen (the login screen) does not appear, contact the Service Center or your dealer. |
| | Can you see "Not Optimum Mode", "Recommended Mode 1920 x 1200 60 Hz" on the screen? | You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can handle properly.<br><br>Adjust the maximum resolution and frequency that the monitor can handle properly.<br><br>If the display exceeds SXGA or 75 Hz, a "Not Optimum Mode", "Recommended Mode 1920 x 1200 60 Hz" message is displayed. If the display exceeds 85 Hz, the display will work properly but the "Not Optimum Mode", "Recommended Mode 1920 x 1200 60 Hz" message appears for one minute and then disappears.<br>Please change to the recommended mode during this one-minute period.<br>(The message is displayed again if the system is rebooted.) |

| | | |
|---|---|---|
| | There is no image on the screen.<br>Is the power indicator on the monitor blinking at 1 second intervals? | The monitor is in PowerSaver mode.<br><br>Press a key on the keyboard to activate the monitor and restore the image on the screen.<br><br>If there is still no image, press the 'SOURCE' button.<br>Then press any key on the keyboard again to activate the monitor and restore the image on the screen. |
| | Connected using the DVI cable? | You may get a blank screen if you boot the system before you connect the DVI cable, or disconnect and then reconnect the DVI cable while the system is running as certain types of graphic cards do not send out video signals.<br>Connect the DVI cable and then reboot the system. |
| I cannot see the On Screen Display. | Have you locked the On Screen Display (OSD) Menu to prevent changes? | Unlock the OSD by pressing the [MENU] button for at least 5 seconds. |
| The screen shows strange colors or just black and white. | Is the screen displaying only one color as if looking at the screen through a cellophane paper? | Check the signal cable connection.<br><br>Make sure the video card is fully inserted in its slot. |
| | Have the screen colors become strange after running a program or due to a crash between applications? | Reboot the computer. |
| | Has the video card been set properly? | Set the video card by referring to the video card manual. |
| The screen suddenly has become unbalanced. | Have you changed the video card or the driver? | Adjust screen image position and size using the OSD. |
| | Have you adjusted the resolution or frequency to the monitor? | Adjust the resolution and frequency at the video card. (Refer to the Preset Timing Modes). |
| | The screen can be unbalanced due to the cycle of the video card signals. Readjust Position by referring to the OSD. | |
| The screen is out of focus or OSD cannot be adjusted. | Have you adjusted the resolution or frequency on the monitor? | Adjust the resolution and frequency of the video card. (Refer to the Preset Timing Modes). |
| LED is blinking but no images on the screen. | Is the frequency properly adjusted when checking the Display Timing on the menu? | Adjust the frequency properly by referring to the video card manual and the Preset Timing Modes.<br>(The maximum frequency per resolution may differ from product to product.) |
| There are only 16 colors shown on the screen. The screen colors have changed after changing the video card. | Have the Windows colors been set properly? | Windows XP :<br>Set the resolution at the Control Panel → Appearance and Themes → Display → Settings.<br><br>Windows ME/2000 :<br>Set the resolution at the Control Panel → Display → Settings. |

| | | |
|---|---|---|
| | Has the video card been set properly? | Set the video card by referring to the video card manual. |
| There is a message that reads "Unrecognized monitor, Plug & Play (VESA DDC) monitor found". | Have you installed the monitor driver? | Install the monitor driver according to the Driver Installation Instructions. |
| | See the video card manual to see if the Plug & Play (VESA DDC) function can be supported. | Install the monitor driver according to the Driver Installation Instructions. |
| Check when MagicTune™ does not function properly. | MagicTune™ feature is found only on PC (VGA) with Window OS that supports Plug and Play. | * To check whether your PC is available for MagicTune™ feature, follow the steps below (When Windows is XP);<br>Control Panel → Performance and Maintenance → System → Hardware → Device Manager → Monitors → After deleting Plug and Play monitor, find 'Plug and Play monitor' by searching new Hardware.<br>MagicTune™ is an additional software for the monitor. Some graphic cards may not support your monitor. When you have a problem with the graphic card, visit our website to check the compatible graphic card list provided.<br>http://www.samsung.com/monitor/magictune |
| MagicTune™ doesn't work properly. | Have you changed your PC or video graphic card? | Download the latest program. The program can be downloaded http://www.samsung.com/monitor/magictune |
| | Did you install the program? | Reboot the computer after installing the program for the first time. If a copy of the program is already installed, remove it, reboot the computer, and then install the program again. You need to reboot the computer for it to operate normally after installing or removing the program. |

※ Visit the MagicTune™ website and download the installation software for MagicTune™ MAC.

**Check the following items if there is trouble with the monitor.**

- Check if the power cord and the video cables are properly connected to the computer.
- Check if the computer beeps more than 3 times when booting.
  (If it does, request an after-service for the main board of the computer.)
- If you installed a new video card or assembled the PC, please check if the adapter(video) driver and the monitor driver are properly installed.
- Check if the scanning ratio of the video screen is set at 56 Hz ~ 75 Hz.
  (Do not exceed 60 Hz when using the maximum resolution.)
- If you have problems in installing the adapter (video) driver, boot the computer in Safe Mode, remove the Display Adapter at the "Control Panel → System → Device Administrator" and then reboot the computer to reinstall the adapter (video) driver.

※ If problems repeatedly occur, contact an authorized service center.



## Q & A

| Question | Answer |
|---|---|
| How can I change the frequency? | Frequency can be changed by reconfiguring the video card. |

| | |
|---|---|
| | Note that video card support can vary, depending on the version of the driver used.<br>(Refer to the computer or the video card manual for details.) |
| How can I adjust the resolution? | Windows XP :<br>Set the resolution at the Control Panel → Appearance and Themes → Display → Settings.<br><br>Windows ME/2000 :<br>Set the resolution at the Control Panel → Display → Settings.<br><br>※ Contact the video card manufacturer for details. |
| How can I set the Power Saving function? | Windows XP :<br>Set the resolution at the Control Panel → Appearance and Themes → Display → Screen Saver.<br>Set the function at BIOS-SETUP of the computer.<br><br>Windows ME/2000 :<br>Set the resolution at the Control Panel → Display → Screen Saver.<br>Set the function at BIOS-SETUP of the computer.<br><br>※ Refer to Windows/Computer Manual |
| How can I clean the outer case/LCD Panel? | Disconnect the power cord and then clean the monitor with a soft cloth, using either a cleaning solution or plain water.<br><br>Do not leave any remains of the detergent nor scratch the case. Do not allow any water to go inside the monitor. |



## Self-Test

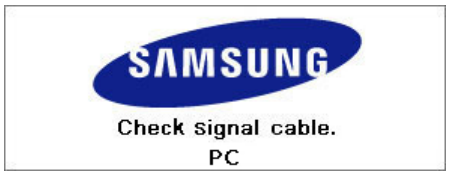
Self-Test Feature Check | Warning Messages | Environment | Useful Tips

Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly.

### Self-Test Feature Check

1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer.
3. Turn on the monitor.

   If the monitor is functioning properly, you will see a box in the illustration below.




   This box appears during normal operation if the video cable becomes disconnected or damaged.

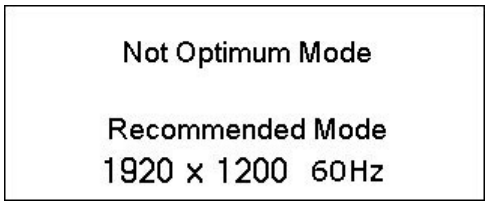
4. Turn off your monitor and reconnect the video cable; then turn on both your computer and the

monitor.

If your monitor screen remains blank after using the previous procedure, check your video controller and computer system; your monitor is functioning properly.

## Warning Messages

If there is something wrong with the input signal, a message appears on the screen or the screen goes blank although the power indicator LED is still on. The message may indicate that the monitor is out of scan range or that you need to check the signal cable.




## Environment

- The location and the position of the monitor may influence the quality and other features of the monitor.
  - If there are any sub woofer speakers near the monitor, unplug and relocate the woofer to another room.
    Remove all electronic devices such as radios, fans, clocks and telephones that are within 3 feet (one meter) of the monitor.

## Useful Tips

- A monitor recreates visual signals received from the computer. Therefore, if there is trouble with the computer or the video card, this can cause the monitor to become blank, have poor coloring, noise, Video mode not supported, etc. In this case, first check the source of the problem, and then contact the Service Center or your dealer.

- Judging the monitor's working condition

  If there is no image on the screen or a "Not Optimum Mode", "Recommended Mode 1920 x 1200 60 Hz" message comes up, disconnect the cable from the computer while the monitor is still powered on.

  - If there is a message coming up on the screen or if the screen goes white, this means the monitor is in working condition.
  - In this case, check the computer for trouble.






## Specifications

General

| | |
|---|---|
| Model Name | SyncMaster 275TPLUS |

LCD Panel

| | |
|---|---|
| Size | 27" Wide Diagonal (68 cm) |
| Display area | 581.76 mm(H) x 363.6 mm(V) |
| Pixel Pitch | 0.303 mm(H) x 0.303 mm(W) |

Synchronization

| | |
|---|---|
| Horizontal | 30 ~ 81 kHz |
| Vertical | 56 ~ 75 Hz |

Display Color

16.7 M

Resolution

| | |
|---|---|
| Optimum resolution | 1920x1200 @ 60 Hz (RB) |
| Maximum resolution | 1920x1200 @ 60 Hz (RB) |

For the detailed timing mode of each mode, refer to Preset Timing Modes.

Input Signal, Terminated

RGB Analog, DVI-D(Digital Visual Interface), AV, S-Video, Component, USB(1U/4D)
0.7 Vp-p ± 5%
TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V)

Maximum Pixel Clock

154 MHz

Power Supply

AC 100-240 VAC ( ± 10 %), 60/50 Hz ± 3 Hz

Signal Cable

15pin-to-15pin D-sub cable, Detachable
DVI-D to DVI-D connector, Detachable (Sold separately)

Dimensions (W x H x D) / Weight

629.0 X 410.5 X 81.0 mm / 24.8 x 16.2 x 3.2 inch (Without Stand)
629.0 X 486.0 X 280.0 mm / 24.8 x 19.1 x 11.0 inch (With Stand) / 10.4 kg / 22.9 lbs

VESA Mounting Interface

200 mm x 100 mm

Environmental considerations

| | |
|---|---|
| Operating | Temperature: 50°F ~ 104°F (10°C ~ 40°C)<br>Humidity: 10 % ~ 80 %, non-condensing |
| Storage | Temperature: -4°F ~ 113°F (-20°C ~ 45°C)<br>Humidity: 5 % ~ 95 %, non-condensing |

Plug and Play Capability

This monitor can be installed on any Plug & Play compatible system. Interaction of the monitor and computer systems will provide the best operating conditions and monitor settings. In most cases, monitor installation will proceed automatically, unless the user wishes to select alternate settings.

Dot Acceptable

TFT LCD panel manufactured by using advanced semiconductor technology with precision of 1 ppm (one millionth) above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without uneasiness.

For example, the number of TFT LCD sub pixels that is contained in this product are 6,912,000.

※ Design and specifications are subject to change without prior notice.

**Class B Equipment (Information Communication equipment for residential use)**

- This product complies with the Electromagnetic Compatibility Directives for residential use and can be used in all areas including common residential areas.

  (Class B equipment emits less electromagnetic waves than Class A equipment.)



## PowerSaver

- This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use a software utility installed on your computer to set up this feature.

| State | Normal Operation | Power saving mode | Power off (Power Switch) |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Power Indicator | Blue | Blue Blinking | Black |
| Power Consumption | Less than 130 watts | Less than 2 Watts | Less than 0 Watts |

This monitor is EPA ENERGY STAR® compliant and ENERGY2000 compliant when used with a computer equipped with VESA DPM functionality.
As an ENERGY STAR® Partner, SAMSUNG has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.



## Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjust the screen as follows.

### Preset Timing Modes

| Display Mode | Horizontal Frequency (kHz) | Vertical Frequency (Hz) | Pixel Clock (MHz) | Sync Polarity (H/V) |
|---|---|---|---|---|
| MAC, 640 x 480 | 35.000 | 66.667 | 30.240 | -/- |
| MAC, 832 x 624 | 49.726 | 74.551 | 57.284 | -/- |
| MAC,1152 x 870 | 68.681 | 75.062 | 100.000 | -/- |
| IBM, 640 x 350 | 31.469 | 70.086 | 25.175 | +/- |
| IBM, 640 x 480 | 31.469 | 59.940 | 25.175 | -/- |
| IBM, 720 x 400 | 31.469 | 70.087 | 28.322 | -/+ |
| VESA, 640 x 480 | 37.500 | 75.000 | 31.500 | -/- |
| VESA, 640 x 480 | 37.861 | 72.809 | 31.500 | -/- |
| VESA, 800 x 600 | 35.156 | 56.250 | 36.000 | +/+ |
| VESA, 800 x 600 | 37.879 | 60.317 | 40.000 | +/+ |
| VESA, 800 x 600 | 46.875 | 75.000 | 49.500 | +/+ |
| VESA, 800 x 600 | 48.077 | 72.188 | 50.000 | +/+ |
| VESA, 1024 x 768 | 48.363 | 60.004 | 65.000 | -/- |
| VESA, 1024 x 768 | 56.476 | 70.069 | 75.000 | -/- |
| VESA, 1024 x 768 | 60.023 | 75.029 | 78.750 | +/+ |
| VESA, 1152 x 864 | 67.500 | 75.000 | 108.000 | +/+ |
| VESA, 1280 x 960 | 60.000 | 60.000 | 108.000 | +/+ |
| VESA, 1280 x | 63.981 | 60.020 | 108.000 | +/+ |

| | | | | |
|---|---|---|---|---|
| 1024 | | | | |
| VESA, 1280 x 1024 | 79.976 | 75.025 | 135.000 | +/+ |
| VESA, 1600 x 1200 | 75.000 | 60.000 | 162.000 | +/+ |
| VESA, 1920 x 1200 | 74.038 | 59.950 | 154.000 | +/- |



Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle and the inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit : kHz

Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called Vertical Frequency or Refresh Rate. Unit : Hz






## Contact SAMSUNG WORLDWIDE

※ If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

| | | |
|---|---|---|
| North America | | |
| U.S.A | 1-800-SAMSUNG (726-7864) | http://www.samsung.com/us |
| CANADA | 1-800-SAMSUNG (726-7864) | http://www.samsung.com/ca |
| MEXICO | 01-800-SAMSUNG (726-7864) | http://www.samsung.com/mx |
| Latin America | | |
| ARGENTINE | 0800-333-3733 | http://www.samsung.com/ar |
| BRAZIL | 0800-124-421<br>4004-0000 | http://www.samsung.com/br |
| CHILE | 800-SAMSUNG(726-7864) | http://www.samsung.com/cl |
| COLOMBIA | 01-8000112112 | http://www.samsung.com.co |
| COSTA RICA | 0-800-507-7267 | http://www.samsung.com/latin |
| ECUADOR | 1-800-10-7267 | http://www.samsung.com/latin |
| EL SALVADOR | 800-6225 | http://www.samsung.com/latin |
| GUATEMALA | 1-800-299-0013 | http://www.samsung.com/latin |
| JAMAICA | 1-800-234-7267 | http://www.samsung.com/latin |
| PANAMA | 800-7267 | http://www.samsung.com/latin |
| PUERTO RICO | 1-800-682-3180 | http://www.samsung.com/latin |
| REP. DOMINICA | 1-800-751-2676 | http://www.samsung.com/latin |
| TRINIDAD & TOBAGO | 1-800-SAMSUNG(726-7864) | http://www.samsung.com/latin |
| VENEZUELA | 0-800-100-5303 | http://www.samsung.com/latin |

| | | |
|---|---|---|
| Europe | | |
| AUSTRIA | 0800-SAMSUNG(726-7864) | www.samsung.com/at |
| BELGIUM | 0032 (0)2 201 24 18 | http://www.samsung.com/be |
| CZECH REPUBLIC | 844 000 844 | http://www.samsung.com/cz |
| | Distributor pro Českou republiku:<br>Samsung Zrt., česka organizační složka Vyskočilova 4, 14000 Praha 4 | |
| DENMARK | 70 70 19 70 | http://www.samsung.com/dk |
| FINLAND | 030-6227 515 | http://www.samsung.com/fi |
| FRANCE | 3260 SAMSUNG(726-7864)<br>08 25 08 65 65 (€ 0,15/Min) | http://www.samsung.com/fr |
| GERMANY | 01805-SAMSUNG(726-7864) (€ 0,14/Min) | http://www.samsung.de |
| HUNGARY | 06-80-SAMSUNG(726-7864) | http://www.samsung.com/hu |
| ITALIA | 800-SAMSUNG(726-7864) | http://www.samsung.com/it |
| LUXEMBURG | 0035 (0)2 261 03 710 | http://www.samsung.com/be |
| NETHERLANDS | 0900 SAMSUNG(726-7864) (€ 0,10/Min) | http://www.samsung.com/nl |
| NORWAY | 815-56 480 | http://www.samsung.com/no |
| POLAND | 0 801 801 881<br>022-607-93-33 | http://www.samsung.com/pl |
| PORTUGAL | 80 8 200 128 | http://www.samsung.com/pt |
| REPUBLIC OF IRELAND | 0818 717 100 | http://www.samsung.com/ie |
| SLOVAKIA | 0800-SAMSUNG(726-7864) | http://www.samsung.com/sk |
| SPAIN | 902 10 11 30 | http://www.samsung.com/es |
| SWEDEN | 0771-400 200 | http://www.samsung.com/se |
| SWITZERLAND | 0800-SAMSUNG(726-7864) | http://www.samsung.com/ch |
| U.K | 0870-SAMSUNG(726-7864) | http://www.samsung.com/uk |
| CIS | | |
| ESTONIA | 800-7267 | http://www.samsung.ee |
| LATVIA | 800-7267 | http://www.samsung.com/lv |
| LITHUANIA | 8-800-77777 | http://www.samsung.lt |
| KAZAHSTAN | 8-10-800-500-55-500 | http://www.samsung.kz |
| KYRGYZSTAN | 00-800-500-55-500 | |
| RUSSIA | 8-800-555-55-55 | http://www.samsung.ru |
| UKRAINE | 8-800-502-0000 | http://www.samsung.ua |

| | | |
|---|---|---|
| UZBEKISTAN | 8-800-120-0-400 | http://www.samsung.uz |
| Asia Pacific | | |
| AUSTRALIA | 1300 362 603 | http://www.samsung.com/au |
| CHINA | 800-810-5858, 010- 6475 1880 | http://www.samsung.com.cn |
| HONG KONG | 3698-4698 | http://www.samsung.com/hk |
| INDIA | 3030 8282<br>1800 110011 | http://www.samsung.com/in |
| INDONESIA | 0800-112-8888 | http://www.samsung.com/id |
| JAPAN | 0120-327-527 | http://www.samsung.com/jp |
| MALAYSIA | 1800-88-9999 | http://www.samsung.com/my |
| NEW ZEALAND | 0800SAMSUNG(726-7864) | http://www.samsung.com/nz |
| PHILIPPINES | 1800-10-SAMSUNG(726-7864) | http://www.samsung.com/ph |
| SINGAPORE | 1800-SAMSUNG(726-7864) | http://www.samsung.com/sg |
| THAILAND | 1800-29-3232, 02-689-3232 | http://www.samsung.com/th |
| TAIWAN | 0800-329-999 | http://www.samsung.com/tw |
| VIETNAM | 1 800 588 889 | http://www.samsung.com/vn |
| Middle East & Africa | | |
| SOUTH AFRICA | 0860-SAMSUNG(726-7864 ) | http://www.samsung.com/za |
| TURKEY | 444 77 11 | http://www.samsung.com.tr |
| U.A.E | 800-SAMSUNG (726-7864)<br>8000-4726 | http://www.samsung.com/mea |



# Terms

## Dot Pitch

- The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'. Unit : mm

## Vertical Frequency

- The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called Vertical Frequency or Refresh Rate. Unit : Hz

  Example : If the same light repeats itself 60 times per second, this is regarded as 60 Hz.

## Horizontal Frequency

- The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit : kHz

### Interlace and Non-Interlace Methods

- Showing the horizontal lines of the screen from the top to the bottom in order is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.

### Plug & Play

- This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function.

### Resolution

- The number of horizontal and vertical dots used to compose the screen image is called 'resolution'. This number shows the accuracy of the display. High resolution is good for performing multiple tasks as more image information can be shown on the screen.

  Example : If the resolution is 1920 x 1200 , this means the screen is composed of 1920 horizontal dots (horizontal resolution) and 1200 vertical lines (vertical resolution).

### S-Video

- Short for "Super Video." S-Video allows up to 800 lines of horizontal resolution, enabling high-quality video.

### External Device Input

- External device input refers to video input from such external video devices as VCRs, camcorders and DVD players, separate from a TV broadcast.

### DVD

- A type of digital disk technology that takes up only the benefits of CD and LD, to implement a high resolution/quality, which enables the user to enjoy clearer images.



## For Better Display

- Adjust computer resolution and screen injection rate (refresh rate) oncomputer as described below to enjoy the best quality of picture. You can have an uneven quality of picture in the screen if the best quality of picture is not provided in TFT-LCD.

  - Resolution : 1920 x 1200
  - Vertical frequency (refresh rate) : 60 Hz

- TFT LCD panel manufactured by using advanced semiconductor technology with precision of 1ppm (one millionth) above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen.
  This is not from bad quality and you can use it without uneasiness.

  - For example, the number of TFT LCD sub pixels that is contained in this product are 6,912,000.

- When you clean the monitor and the panel outside, please apply the recommended small amount of cleaner by using soft and dry cloth and polish it. Let LCD area not to be forced but to be scrubbed out softly.
  If excessive force is applied, you can have a stain on it.

- If you are not satisfied with the quality of the picture, you can get better quality of the picture by executing "auto adjustment function" in display screen that is appeared as window termination button is pressed.

If there's still noise after automatic adjustment, use FINE/COARSE adjustment function.

- If you view a fixed screen for an extended period of time, residual image or blurriness may appear. Change the mode to energy save or set a screensaver to move the picture when you need to be away from the monitor for an extended period of time.



## Authority

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